Uniwell 2007-5-30

PX-6000 series

05 type

Operation Manual

PX-6600 2-sheet dot matrix printer
PX-6700 2-sheet thermal printer
PX-6750 1-sheet thermal printer

THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.
LA PRISE DOIT ETRE PRES DE L'APPAREIL ET FACILE D'ACCES.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

The crossed-out wheeled bin symbol is used to show that this product must not be treated as general household waste. Please contact the supplier of this product to ensure that it is disposed of correctly.

You will be helping to prevent potentially negative consequences for the environment and human health, which could otherwise be caused by incorrect waste handling of the product.

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Notes

1. The contents of this manual are subject to change without notice.
2. We can not be held responsible if other products, which are not approved by us, are used for options or expendable supplies.

ATTENTION

Thank you very much for purchasing this Electronic Cash Registers. This ECR has many programmable features, hardware combinations and options. Please consult your dealer as to your particular requirements, as this ECR can be configured, through both hardware and software (programming) to suit a variety of different applications.

Please fill in the information requested below:

MODEL : _____

SERIAL No.: _____

DATE OF PURCHASE: _____

YOUR DEALER
(WHERE PURCHASED): _____

Phone/Fax/Address: _____

_____

_____

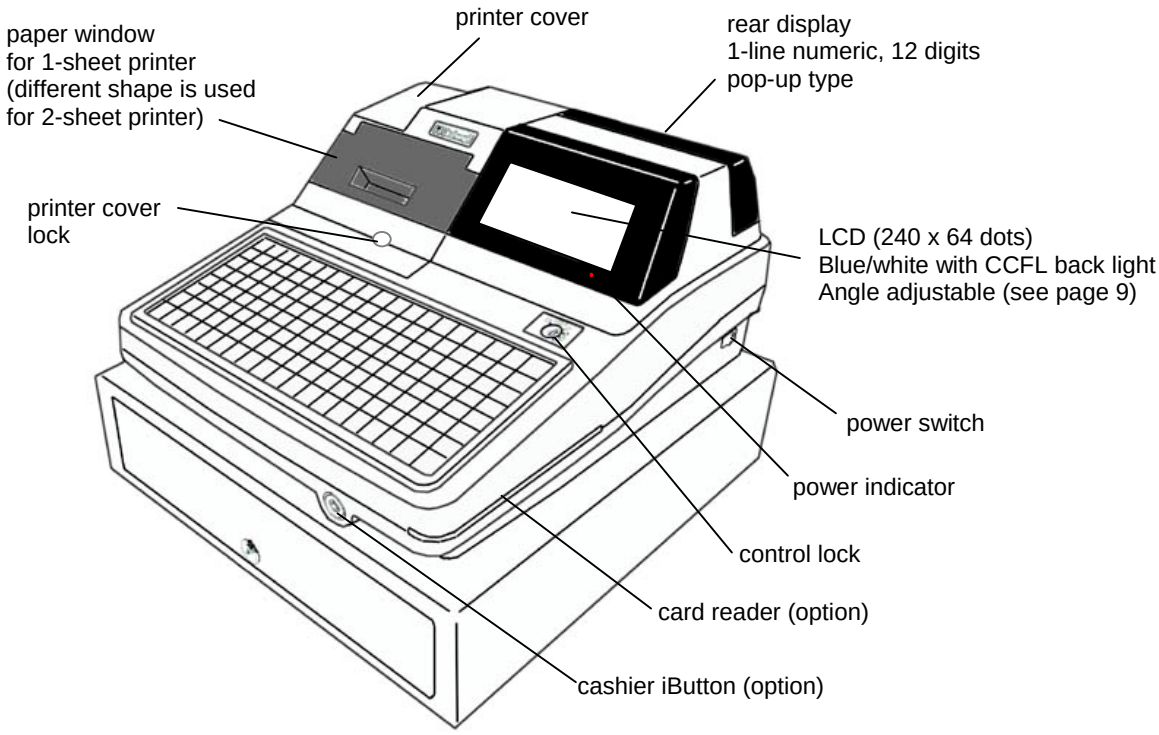
I. INTRODUCTION

This 05 series is POS terminals for retail (scanning) market, grocery convenient stores, variety, specialty, supermarkets having a lot of functions like scanning system, quantity discount system and Inter Register Communication, and so on as follows:

Major Features

- Wide LCD display (40 digits, 8 lines) with scroll functions
- Scanning system with 18 digits random PLU code having 22 digits PLU name
- Standard 2026 PLUs, Max. 56076 PLUs (option)
- User friendly PLU programming in R & SP positions
- Bottle deposit / bottle return function by using 341 R. PLU (Recyclable PLU)
- 300 quantity discount tables for mix and match, multi-buy registrations, etc.
- Store / Vendor Coupon function
- 99 cashiers with its own full transaction memory
- 2048 amount tracks and external amount track function
- one store memory for saving all contents of the current transaction
- 1024 customer files make records of telephone number or VAT number, name and address - these information are issued on receipts for delivery service market, etc. (optional 1st RAM board required)
- 3 age limitation tables - item linked to age limitation table can be sold when entered customer's birthday is over the programmed limit
- 25 media keys + 10 preset tender keys
- Euro currency system
- 10 arrangement keys (50 key steps)
- Scroll Void
- Transaction Void
- Bar code printed on receipt
- Easy-to-See total discount amount on receipt
- 15887 ESF records (optional 1st RAM board required) with ESF print
- IRC (Inter Register Communication)
  - Up to 32 units including an ECR master or PC as IRC master (Tensai2000) via NA-720
  - Flash reports and flash downloading
  - 8 slip printers
- PC batch communication, programming loader module PLM 2000
- Scale link

II. INSTALLATION



Unpacking
Check the contents for obvious physical damage.

Suggestions for installation
1) The ECR should not be installed in extremely hot or cold places, or places which are exposed to direct sunlight for extended periods of time.
2) The ECR should not be installed where it may come into contact with excessive dust.
3) The ECR should not come into contact with liquid.

Check the following before using ECR
1) The required peripheral(s) has (have) been connected to the correct interface connector(s);
2) The power plug is connected to the AC outlet;
3) The control key is turned to the appropriate position;
4) The appropriate number of paper roll(s) is (are) fitted.

If SETUP REQUIRED is displayed
It indicates that ECR data might be collapsed because of a low battery condition by battery discharge while ECR is in stock for a long period. Perform Physical RAM Test and Auto Preset, then leave ECR ON for minimum of 3 hours for battery charge. Contact your distributor or refer to the programming manual for the steps.

When you connect / disconnect the cable for the peripheral, make sure that the power is "OFF".

Replacing Paper Rolls - Dot Matrix Printer

Regarding terminal printers, refer to the respective printer's User's Manual.

a) Lift the printer cover.

b) **Removing old paper:**
Press the receipt or journal paper feed key to feed the remaining paper through the printer or push the green paper release lever towards the paper roll bed and pull the paper through the printer.
DO NOT force paper through the printer as this may result in damage to the printer mechanism or cause a paper jam.

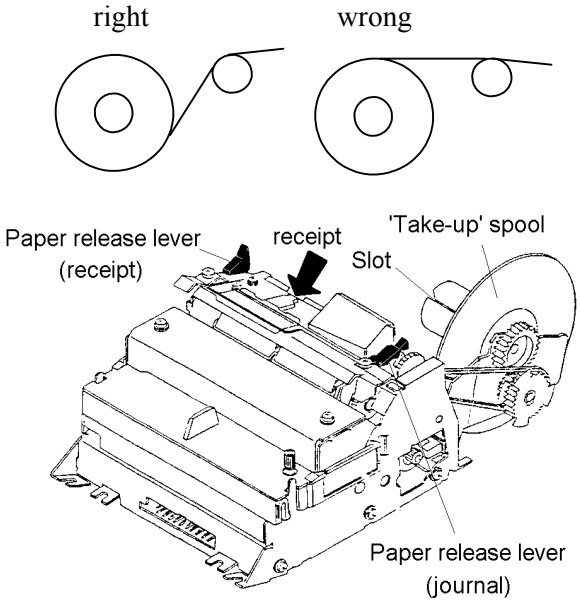
c) **Inserting new paper:**
Place the new paper in the correct position on the printer's paper roll bed.

d) Make sure that the leading edge of the new paper roll is cut **straight** across.

e) Set the paper release lever and insert the leading edge into the printer slot.

f) In order to feed the paper, press the paper feed key to the roll you are replacing.

g) In the case of the journal paper, insert the loose end of the paper tightly to the slot of journal 'take-up' spool.



fine quality paper roll
44.5 mm x ø83 mm

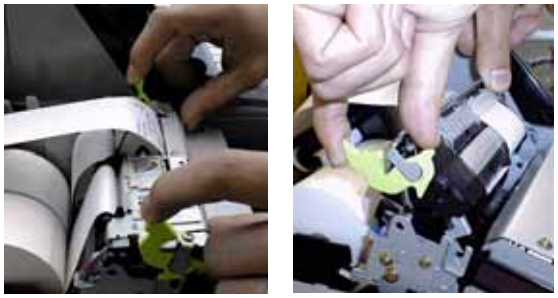
When paper jammed inside the paper guide

a) Raise the paper guide by lifting both paper release levers.

b) Remove the jammed paper by hand.

c) Close the paper guide.

d) Then, with both hands, gently press down both sides of the paper guide.



Replacing the Ribbons - Dot Matrix Printer

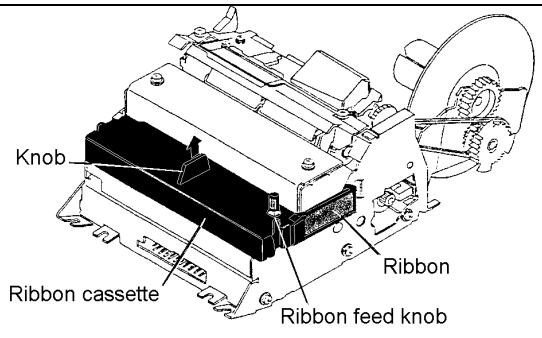
INK RIBBON: ERC-32 (Epson)

a) Lift the printer cover and remove the old ribbon.

b) Turn the ribbon feed knob to stretch tight.

c) While tilting the ribbon cassette forward slightly, insert the ribbon between the print head and the paper; push the ribbon cassette firmly into place.

d) Turn the ribbon feed knob once more to stretch tight the ribbon.

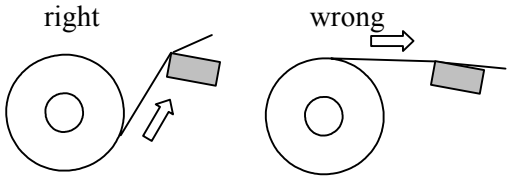


Replacing paper rolls for 2-sheet thermal printer

a) Turn the printer cover lock key counter-clockwise and gently lift the printer cover.

b) **Remove the old paper:**
Pull the platen open lever, open the paper roll cover and remove the remaining paper. (When you open the paper roll cover, continuous buzzer sounds.)
DO NOT force paper through the printer as this may result in damage to the printer mechanism or cause a paper jam.

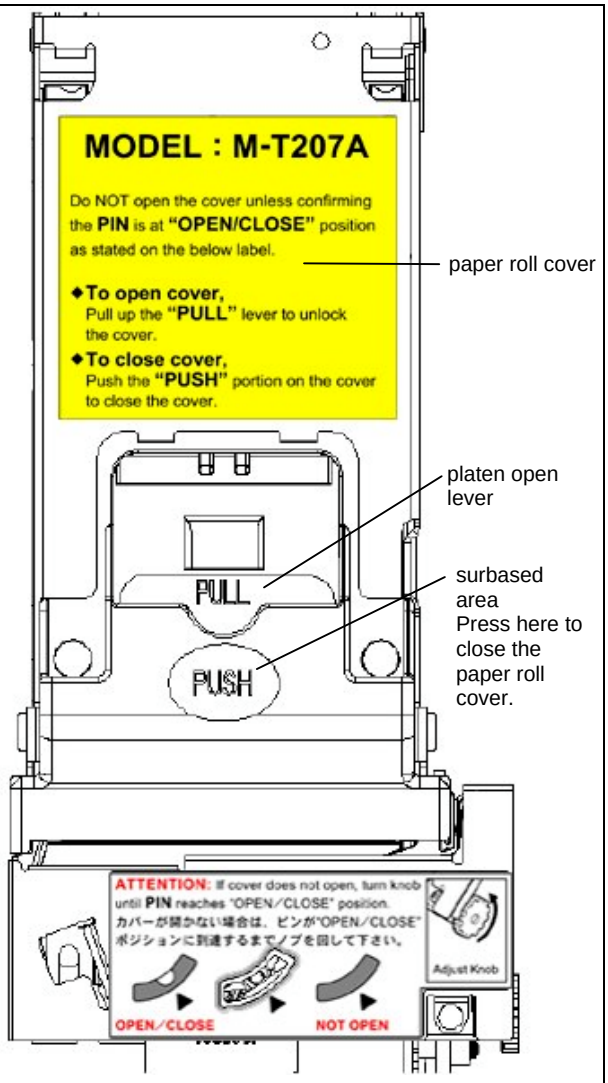
c) **Setting new paper:**
Place the new paper in the correct position on the printer's paper roll bed.



d) Close the paper roll cover by pressing down the surbased area. In the case of the receipt paper, the leading edge of the paper is cut automatically.

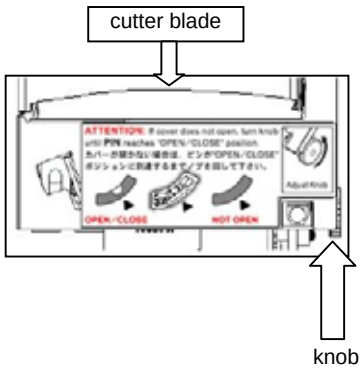
e) In the case of the journal paper, insert the loose end of the paper tightly to the slot of journal 'take-up' spool.

fine quality thermal paper roll
57.5 +/- 0.5 mm x ø83 mm
Please the paper roll whose end is NOT adhered to the paper core


MODEL : M-T207A
Do NOT open the cover unless confirming the PIN is at "OPEN/CLOSE" position as stated on the below label.
◆To open cover,
Pull up the "PULL" lever to unlock the cover.
◆To close cover,
Push the "PUSH" portion on the cover to close the cover.
paper roll cover
platen open lever
surbased area
Press here to close the paper roll cover.
PULL
PUSH
ATTENTION: If cover does not open, turn knob until PIN reaches "OPEN/CLOSE" position.
カバーが開かない場合は、ピンが"OPEN/CLOSE"
ポジションに到達するまでノブを回して下さい。
Adjust Knob
OPEN/CLOSE
NOT OPEN

< When receipt paper jammed inside the paper guide >

1. Turn the power OFF.
2. Check the PIN position is in the OPEN/CLOSE position.
   If it is not, use the knob to return it to the OPEN/CLOSE position in order to return the cuter blade to the standby position.
3. Pull the platen open lever to open the paper roll cover.
4. Remove the jammed paper.
5. Turn the power ON.
6. Place the paper in the correct position as described in the step c) above.



Attentions for 2-sheet thermal printer

In order to use thermal receipt printer comfortably, pay attention to the following points:

- **Thermal Paper**

Please use a designated **fine quality thermal paper roll whose paper end is NOT adhered to the paper core**:

Paper type	Single roll thermal paper
Recommended	KF50 (KANZAN)
	TF50KS-E (Nippon Paper Industries)
	P350 (KSP)
Paper size	57.5 +/- 0.5 mm
	less than ø83 mm
	thickness 60~75 μm

- **Paper Cut**

Do not pull the receipt until receipt issue is completed.
Cut the paper by pulling to the left or front side because there is a remaining breaking point on the left end of the paper.

- **In case Paper Jam happens**

Even if a receipt paper is somehow jammed, you can remove the paper swiftly and easily because of its cram shell mechanism. See the steps on the previous page.

Replacing paper rolls for 1-sheet thermal printer

a) Turn the printer cover lock key counter-clockwise and gently lift the printer cover.

b) **Remove the old paper:**
Press the paper feed key to feed the remaining paper through the printer. **DO NOT** force paper through the printer as this may result in damage to the printer mechanism or cause a paper jam.
OR
Pull the head up lever towards the front of ECR and pull the paper through the printer.

c) **Inserting new paper:**
Using the scissors, cut the leading edge of the paper roll **straight**.

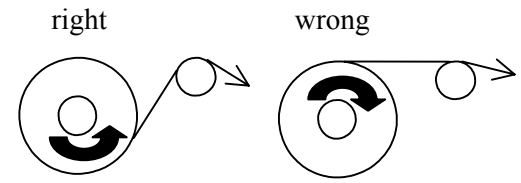
Insert the paper shaft though the core of the new paper roll.

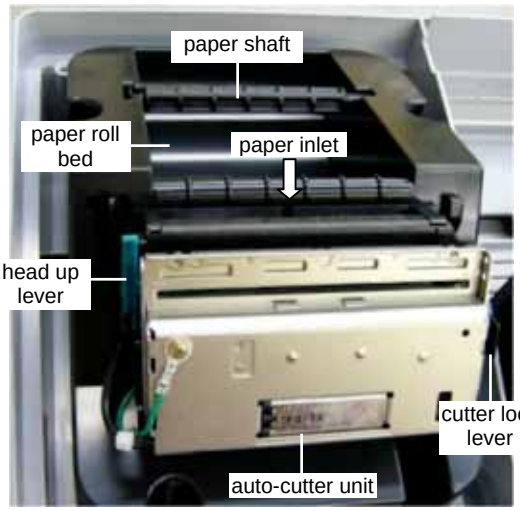
Place the new paper in the **correct position** on the printer's paper roll bed.

Set the head up lever to the head down condition.

Insert the leading edge of the paper to the paper inlet. The paper is automatically loaded under the power switch on condition.

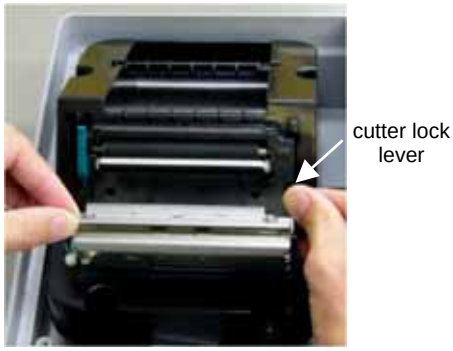
fine quality thermal paper roll
TF50KS-E2C (Nippon Paper Industries)
80 mm x ø80 mm





< When receipt paper jammed inside the paper guide >

1. Raise the auto paper cutter unit by pulling cutter lock lever.
2. Remove the jammed paper by hand.
3. Close the auto cutter unit.



In case that the Auto-Cutter on 1-sheet thermal printer does not return

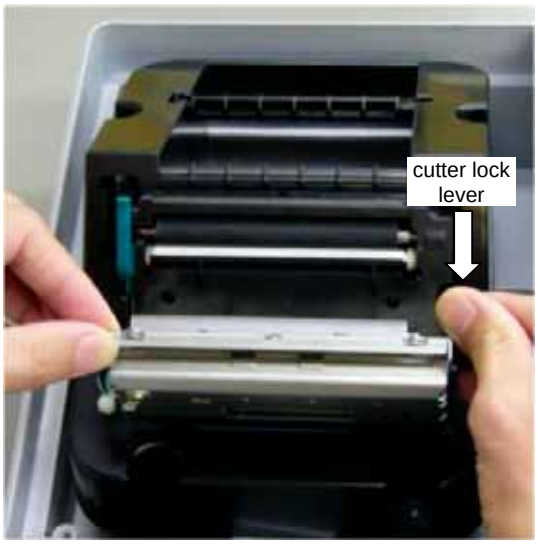
If the auto-cutter is locked by a paper jam or if something come into the auto-cutter and locked, please follow the sequences below:

a) Turn the power switch off. Open the printer cover.

b) Pull the cutter lock lever to right and pull the auto-cutter unit.

c) Turn the emergency knob in order to draw in the cutter to the direction that the arrow shows.

d) Then, remove the paper or the something.



auto-cutter unit back view

emergency knob

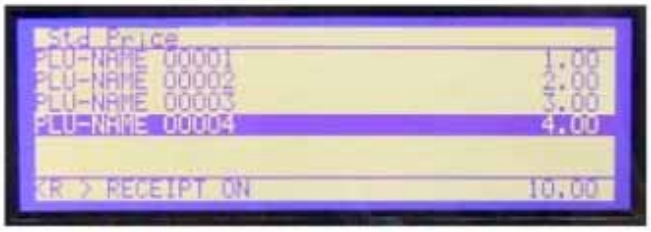
Do not touch the print head by hand right after printing since it is very hot.

III. DISPLAY

FRONT LCD DISPLAY

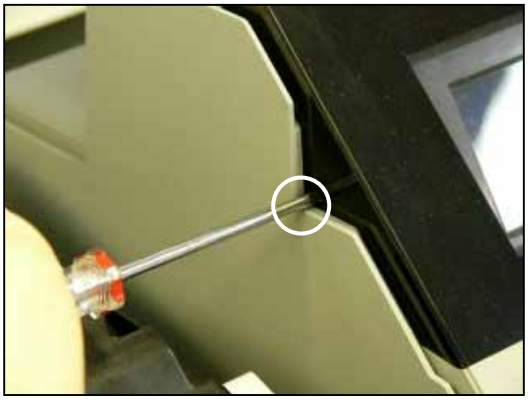
Display type	64 (H) x 240 (W) dot matrix
Dot size	0.46 (H) x 0.41 (W) mm/dot
View area	38 (H) x 116 (W) mm
LCD type	STN Blue mode, transmissive
Back light	white CCFL back light

Reversing function, Small PLU display [SF-119.g,h]



How to Adjust Contrast

Contrast on the display can be adjusted by **SCROLL UP/ DOWN** key (**PAGE UP/DOWN** key for more dynamic adjustment) when no item entered in R position or WARN MESSAGE# 03 (Cashier Sign-off) is displayed in other positions. Press **CASHIER ID** key two times for cashier sign-off.

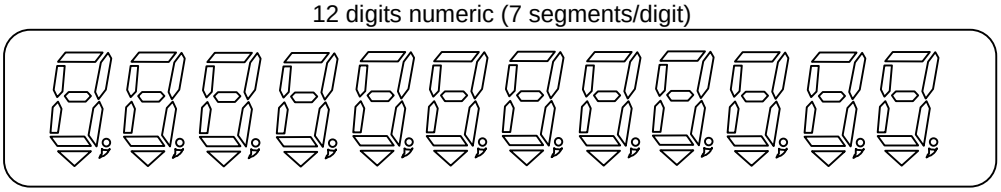


How to Adjust Angle

Three angles are available.
1. Open printer cover.
2. Insert a minus driver into a hole of LCD cover.
3. Adjust angle by using a minus driver.

REAR DISPLAY

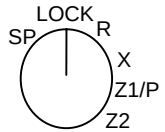
12 digits numeric (7 segments/digit)



not used | REG | Pending Price | ESF | ESF | # | % | +/- | VD/RF | PO/RA | R-OFF | TTL

IV. STANDARD KEY LAYOUT

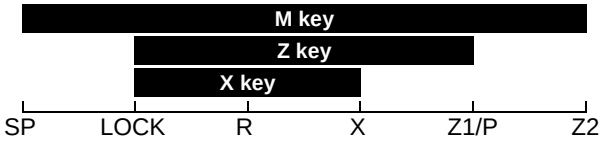
Stroke Keyboard



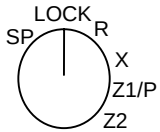
⇧ RPF	⇧ JPF	RECEIPT OFF	(Fix/Pgm)	A 1	G 7	M 13	S 19	Y 25		€ PLU	£ REPEAT	: PRICE	@ BUFFER PRINT	(BS) MESSAGE
CL	X TIME	CASHIER ID	(L/R)	B 2	H 8	N 14	T 20	Z 26		# ITEM (-)	Ñ SBTL (-)	Ø CR	? VOID	(SPACE) REFUND
7	8	9	(INS SP)	C 3	I 9	O 15	U 21	Ä 27		$ %1	* %2	< BOTTLE RETURN	(A/C) STORE RESTORE	(CAPS) TRACK NB
4	5	6	←	D 4	J 10	P 16	V 22	Ö 28	.	% ADJUST 1	Å ADJUST 2	Σ NO SALE	TTL 1	(SMALL) TTL 2
1	2	3	→	E 5	K 11	Q 17	W 23	Ü 29		& PAGE UP	- ⇧ SCROLL	> SBTL	TTL 3	(DOUBLE) TTL 4
0	00	•	(DEL)	F 6	L 12	R 18	X 24	Æ 30		, PAGE DOWN	/ SCROLL ⇩	ENTER	(ENTER) CASH/TTL25	

option

Control key position range: There are three standard control keys (M, Z, X).



Flat Keyboard



1	9	17	25	33	41	49	57	65	73	81	TAX	TTL VALID.	MISC VALID.	⇧ RPF	⇧ JPF	RECEIPT OFF	BUFFER PRINT	MESSAGE
2	10	18	26	34	42	50	58	66	74	82	TAX SHIFT 1	TAX SHIFT 2	TAX SHIFT 3	PAGE UP	⇧ SCROLL	REFUND	VOID	OFF COM-PULSORY
3	11	@ 19	# 27	$ 35	% 43	Æ 51	& 59	* 67	£ 75	Ñ 83	Ä PACKED SALE 1	- PACKED SALE 2	Ø PACKED SALE 3	PAGE DOWN	SCROLL ⇩	ENTER	CR	PRICE INQUIRY
4	1 12	2 20	3 28	4 36	5 44	6 52	7 60	8 68	9 76	0 84	€ % 1	Σ % 2	Å % 3	CL	X / TIME	CASHIER ID	PLU	TTL 1
(Fix/Pgm) 5	Q 13	W 21	E 29	R 37	T 45	Y 53	U 61	I 69	O 77	P 85	Ö ADJUST 1	Ü ADJUST 2	. ADJUST 3	7	8	9	REPEAT	TTL 2
(L/R) 6	A 14	S 22	D 30	F 38	G 46	H 54	J 62	K 70	L 78	: 86	, ITEM (-)	/ SBTL (-)	← BOTTLE RETURN	4	5	6	PRICE	TTL 3
(INS SP) 7	(A/C) 15	Z 23	X 31	C 39	V 47	B 55	N 63	M 71	< 79	> 87	? P/O	(BACK SP) R/A	TRACK NB	1	2	3	NO SALE	TTL 4
(DEL) 8	(CAPS) 16	(SMALL) 24	32	(SPACE) 40	(SPACE) 48	→ 56	64	(DOUBLE) 72	80	(CL) 88	TARE	SCALE	(ENTER) STORE RESTORE	0	00	•	SBTL	(ENTER) CASH TTL 25

V. KEY EXPLANATION

Page	Key	Remarks
46	ADJUSTMENT 1 ~ 4	Automatic % Discount/Surcharge on Specific Items: Calculates mark-up or mark-down on the subtotal amount of items which have been preprogrammed as adjustable 1 ~ 4 items. Note that adjustment does not affect PLU sales memory which is shown on the reports.
66	ARRANGEMENT 1 ~ 10	Performs sequences of programmed steps (up to 50-key steps). Useful for 1-key operations such as fixed sales or report-takes.
35	BOTTLE RETURN	Automatically returns a R. PLU (Recyclable PLU) linked to main PLU.
78	BUFFER PRINT	- Prints a post-receipt while under the receipt off condition or prints a slip when ECR was programmed for use with a slip printer. - Manual line finding operation: Enter the line number where printing should start and press **BUFFER PRINT** key. Note that slips issued by the manual line finding operation will not have a slip logo.
15 16	CASHIER ID	- Used for cashier log-in and log-out in order to record the cashier's labor time. - Used for cashier sign-on and sign-off when using the secret cashier code system for entry into registration.
15 16	CASHIER iBUTTON (option)	Used for cashier sign-on and sign-off when using Cashier iButton for entry into registration by [SF-11.h]. If so programmed by [SF-11.f] and when the cashier iButton is removed, the transaction is automatically closed by **CASH/TTL 25** key, Amount Track is automatically closed by **NEW BALANCE** key.
	CL (Clear)	Cancels any information that is entered by ten-key or function key (P/O, R/A, tax shift, etc.) before registration; also clears error conditions.
51	CR (Correction)	Cancels the registration of the last-registered item including function key inputs such as %, amount discount, scroll void, etc.
70	CUSTOMER FILE	Used for making or picking up a customer file.
	ENTER	Used to fix the selection.
74	ESF PRINT	Prints ESF data on the receipt in the **R** or **X** control key position.
41	F.S. SBTL (Food Stamp Subtotal)	Displays the subtotal of food stamp sales. This key should be pressed whenever tendering was done by food stamps. Only for add-on tax system.
38	F.C. SBTL (Foreign Currency Subtotal)	Displays the subtotal of the foreign currency by the depressions of **F.C. SBTL** key and the foreign currency media key. The subtotal of foreign currency must be displayed whenever the tendering amount in the foreign currency is entered.
63	HALO RELEASE	Releases PLU HALO and Total HALO (High Amount Lock-Out).
47 58	ITEM (-) / REG (-)	- Subtracts manually entered amount from the item. - Refunds all entered items at the **Z1/P position**.
	JPF (Journal Paper Feed)	Advances the journal paper.
	LOYALTY CARD REDEMPTION (for North America)	Used to give % discount on the adjustable items for the current transaction. After this key was pressed, the loyalty card must be swiped. Then, the host subtracts the redeemed points from the recorded point on the loyalty card and sends a message of the discount % value back to ECR.
64	MESSAGE	- Enters an alphanumeric message or digits (up to 20 digits). - Displays and prints programmable supplementary message by entering one of supplementary message number 1 ~ 99 by this key.
67	NEW BALANCE	Used to store an amount track. See TRACK/NEW BALANCE key.
63	NO SALE	Used for opening the drawer for no sale operations.
63	OFF COMPULSORY	Releases compulsory conditions of validation, message input, etc.
21	PACKED SALE 1 ~ 3	Handles the same commodity but the prices are different depending on the quantity purchased. Three other PLUs can be registered together with original PLU by these keys.
62	P / O (Paid Out)	Records an amount of money withdrawn from the cash drawer when no customer transaction has taken place.

	PAGE UP / DOWN	- Moves a cursor by a page on the display. - Enters into Scroll Display Mode during a transaction and scrolls up or down the previously registered items on the display. - Used to adjust the contrast of display when WARN MESSAGE# 03 is displayed (cashier signed off condition) more dynamically than by SCROLL UP/DOWN keys.
45	% 1 ~ 3	Enters a percentage rate for mark-up or mark-down of an item or the subtotal amount depending on the operation. Manual % rate is prohibited by programming.
17	PLU	Used for manual code-entry PLU registrations.
17	HARD PLU 1 ~ 165	- Registers a PLU with the preset price directly. - **HARD PLU 1 and 2** keys are used to complete the cash declaration which is used to confirm the cash in drawer 1 and 2 at the end of the day.
	POST TO LOYALTY CARD (for North America)	After this key was pressed, swipe a loyalty card. Then, the net sales and tax total are sent to the loyalty card host and the host updates the points on the loyalty card and sends a message back to ECR.
36	PRESET TENDER 1 ~ 10	Enters a preprogrammed tendering amount directly by key depression. The tendering amount is memorized in one of the total key (media) memories selected by programming.
18	PRICE	Manually overrides the price of a code-entry PLU. This key is not needed to override the price of a hard PLU. Enter a price, press this key, then enter the PLU code and press **PLU** key.
23	PRICE INQUIRY	Displays the price of a PLU by a key depression before a PLU, of which price is needed, is entered.
22	PRICE SHIFT	Shifts or cancels a pending PLU price. Shifted condition is kept for the whole transaction, a specific item or until the next PRICE SHIFT key depression.
79	RECEIPT OFF	Inhibits receipt printing. However, post-receipt may be issued by pressing **BUFFER PRINT** key.
	RPF (Receipt Paper Feed)	Advances the receipt paper.
62	R / A (Received on Account)	Records an amount of money received into the cash drawer when no customer transaction has taken place.
56	REFUND	Refunds a previously registered item.
58	REG (-)	Used for all item refund in Z1/P position. See ITEM (-)/REG (-) key.
18	REPEAT	Repeats registration of the last registered item. Item is repeated by entering ten-keys and **REPEAT** key.
24	SCALE	Displays the weight of items. Press this key before scalable PLU key is pressed if necessary.
52	SCROLL UP / DOWN	- Used to adjust the contrast of display when no item entered in R position or WARN MESSAGE# 03 (Cashier Sign-off) is displayed in other positions. - Enters into Scroll Display Mode during a transaction and scrolls up or down the previously registered items on the display.
34	STORE COUPON	Used for discount by Store Coupon. Press this key after entering the amount which discounted by Store Coupon then register the specified item.
69	STORE / RESTORE	Saves all contents of the current transaction without having to close it, also restores saved transaction. Only one store memory is available.
	SBTL (Subtotal)	- Displays the subtotal amount, including tax. Can be programmed to display and print, or display only. - When an add-on tax item is registered, this key is used in combination with **TAX SHIFT** keys to display each taxable subtotal amount.
47	SBTL (-)	Subtracts a manually entered amount from subtotal.

24	TARE	Adjusts the total weight in order to avoid adding the tare weight on the item weight. It is done either by using programmable tare table or by entering tare weight manually.
59	TAX (for add-on tax system)	- Calculates the add-on tax and prints and displays the tax inclusive subtotal. - Used, in combination with **TAX SHIFT** keys, for manually entering an add-on tax amount and for tax exemption.
59	TAX SHIFT 1 ~ 3 (for add-on tax system)	- Reverses the tax status. - Displays the taxable subtotal amount, in combination with **SBTL** key. - Used to enter the tax amount manually, in combination with **TAX** key. - Allows tax exemption by **TAX** key, if permitted by programming.
	TEN-KEYS (0 ~ 9, 00, 000, •)	For entry of numeric values, percentage rates, PLU codes, report number, programming numbers, etc.
36 15 73	TTL 1 ~ 24, CASH/TTL 25 (media keys)	- Closes transactions with or without a tendered amount. - **TTL 1 ~ 24** keys can be programmed as one of local currency media, foreign currency media, Euro currency media, credit card media, cheque media or food stamp media. - **TTL 25** key is fixed as a local currency media. - **TTL 25** key is also used for cashier log-out, cash declaration, report printing.
67	TRACK / NEW BALANCE	- Assigns a new track after an amount track number (random 6 digits) entered. - Stores the amount track temporarily. - Picks up temporarily closed amount track when pressed after the previously stored track number entered.
55	T. VOID (transaction void)	- Executes all the registrations in a transaction with **TTL 25** key depression. This is available only before the transaction is closed. - Two-time depression cancels the transaction void.
65	MISC. (MEDIA/ITEM) VALIDATION	Prints the item validation and the media validation. The slip validation is available if ECR is programmed for use with a slip printer.
65	TOTAL VALIDATION	Prints the total validation. The slip validation is available if ECR is programmed for use with a slip printer.
34	VENDOR COUPON	Used for discount by Vendor Coupon. Press this key after entering the amount which discounted by Vendor Coupon.
52	VOID	- Voids a previously-registered item within the same transaction. - If permitted by programming, a negative void operation can be done. - Selects an item to be voided in Scroll Display Mode.
19 36 20 24 32	X / TIME	- For use to multiply a PLU or a **PRESET TENDER** key having a preset tendering amount. - Used for a split pricing operation. - For use of manual entry of weight and tare weight of scalable PLU. - For use to enter customer's birthday when an age limited PLU is registered. - Displays the date and time.

VI. OPERATION SEQUENCES

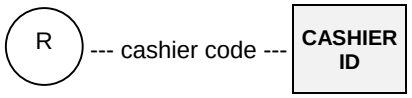
The receipt samples in this manual are printed by Thermal Printer otherwise noted.

1. Cashier Log-in / Log-out

Each cashier should log in to record the starting of his/her labor hours when he/she arrives at the store. Also, they should log out to record the ending of their labor hours at the end of a working day.

By log-in and log-out operations, cashier's attendant date and time are memorized in the ECR.
Cashiers' labor hours are calculated in the ECR by the cashier's log-out operation and they are printed on the cashier report (#10).

< Log-In >



Option: Log-in operation by Cashier Card/iButton is available. Simply swipe card or insert iButton.

Display (popped up)

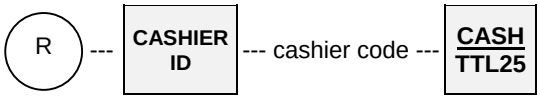
```
LOG-IN       08:45
       JUN03/2003
```

Receipt

```
            JUN03/2003
 L-IN  08:45 JUN03/2003
#001-000001                  08:45R
         CASHIER NAME 001
```

log-in message, time, date
machine #, 2-digit cashier symbol [SF-11.a], consecutive number, time, control key position, cashier name

< Log-Out >



Display (popped up)

```
LOG-OUT      16:55
       JUN03/2003
```

Receipt

```
            JUN03/2003
 L-OUT 16:55 JUN03/2003
#001-000051                  16:55R
         CASHIER NAME 001
```

log-out message, time, date
machine #, 2-digit cashier symbol [SF-11.a], consecutive number, time, control key position, cashier name

Note for Cashier iButton (option): Remove the iButton before log-out operation.

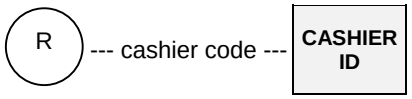
2. Cashier Sign-on / Sign-off

Each cashier should sign on before registration to ensure that sales data in his/her cashier memory is recorded correctly. Even if a cashier does not sign off, when the next cashier signs on, he/she will be automatically signed off.

When the optional Cashier iButton System is selected by [SF-11.h], other methods (cashier code, card) can not be used.

< Sign-On >

The same operation as log-in operation is used. If this operation is done for the first time after the cashier logged out, it is the log-in operation. Confirmation receipt is also prined.



Option: Sign-on operation by Cashier Card/iButton is available.
Simply swipe card or insert iButton.

< Sign-Off >

By Cashier Code

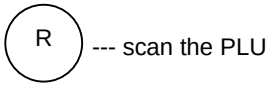
Option: Sign-off operation by Cashier iButton is available.
Simply remove iButton.

3. PLU

There are three ways to enter a PLU.

1. **Bar Coded PLUs** which are PLUs programmed to be registered by a scanner.

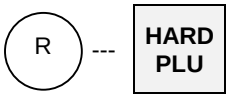
   Procedure: Scan the bar code labeled on each item while the control key is at the R position.



   It is possible to read the following bar codes:
   Source marking, In-store marking (weight embedded / price embedded)
   Four (4) kinds of bar code can be used for the above source marking and in-store marking codes.
   EAN 13, EAN 8, UPC-A, UPC-E or expanded UPC-E [SF-5.g]

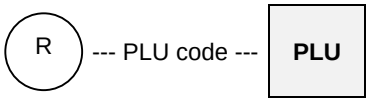
2. **HARD PLU keys** are keys which are allocated to the keyboard.

   Procedure: Press one of **H. PLU** keys while the control key is at the R position.



3. **Code Entry PLUs** are any PLUs which are not allocated to a key on the keyboard.

   Procedure: Enter the code for the PLU using **Ten-Keys** and then press **PLU** key while the control key is at the R position.

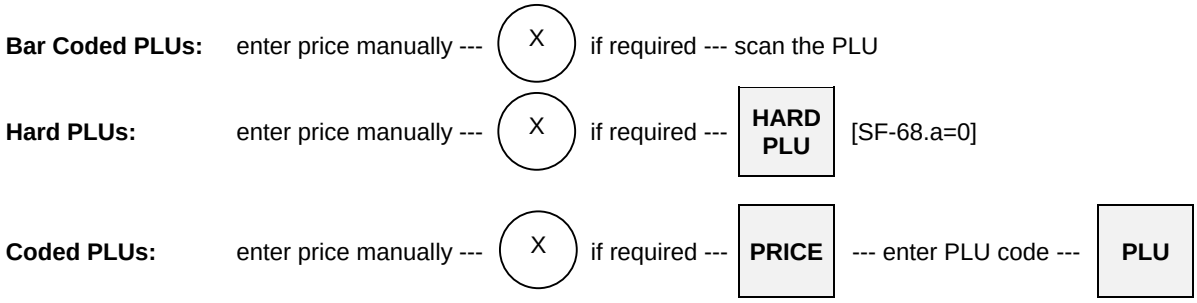


KEY ENTRY	RECEIPT	
1 CASHIER ID HARD PLU 1 (ORANGE) scan bar coded PLU (COFFEE 10 PACKS)	P-------------1# ORANGE 1.00 P--490220103956# COFFEE 10 PACKS 5.00	PLU code printed (not displayed) by [SF-68.h=1]

Following are some samples of PLU operation sequences.

a) Manual Price Entry

A preset price for a PLU may be over-ridden with a manually entered price. Turning the control key to the **X position** may be required by programming [SF-32.h] after the manual price is entered.



b) Repetition

The last registered PLU, including multiplication, can be repeated. Simply press **REPEAT** key the number of times required immediately after a PLU entry.

KEY ENTRY	RECEIPT
CARROT CAKE REPEAT	CARROT CAKE 4.00 CARROT CAKE 4.00

A PLU may be repeated up to 999 times using **ten-keys** and/or **REPEAT** keys. For example, when five items are sold, enter the first item, and register the other four items by pressing **4** and **REPEAT** key instead of pressing 4 times **REPEAT** key.

KEY ENTRY	RECEIPT
BEER 4 REPEAT	BEER 3.00 4 X 3.00 BEER 12.00

c) Multiplication

A PLU may be registered up to 999.999 quantities using **Ten-Keys** and **X** key.

Bar Coded PLUs: enter the number of items --- **X** --- scan the PLU

Hard PLUs: enter the number of items --- **X** --- **HARD PLU**

Direct Multiplication
If programmed by [SF-68.a], Direct Multiplication of a Hard PLU (a multiplication without having to press **X** key) is possible.

enter the number of items --- **HARD PLU**

Coded PLUs: enter the number of items --- **X** --- enter PLU code --- **PLU**

KEY ENTRY	RECEIPT
2 [X] BEER	2 X 2.50 BEER 5.00

Note for Display:
- Entered number is displayed on the top by [SF-119.d=0] or popped up by [SF-119.d=1].
- Quantity displayed by [SF-119.e=0].
- Enlarged quantity displayed [SF-119.f=1]
- Regardless of "quantity displayed" [SF-119.e] setting, enlarged PLU quantity is displayed by [SF-119.f,g=11].

d) Split Pricing

Split pricing can be done by using **X** key as shown in the sequence below.

enter the loose quantity --- **X** --- enter the lot quantity --- **X**

Two bottles of beer are sold from a six-pack.

KEY ENTRY

```
2 [X] 6 [X]
BEER 6 btls
```

RECEIPT

```
2 / 6 X 6.60
BEER <6 btls>                    2.20
```

loose quantity / lot quantity X unit price

Note for Display:

- Entered number is displayed on the top by [SF-119.d=0] or popped up by [SF-119.d=1].
  The calculated split quantity, ".333" in this sample, is displayed only when [SF-119.d=1] is selected.
- Quantity, "2 / 6 X" in this sample, displayed by [SF-119.e=0].
- Enlarged quantity displayed [SF-119.f=1]
- Regardless of "quantity displayed" [SF-119.e] setting, enlarged PLU quantity is displayed by [SF-119.f,g=11].

e) Packed Sale

PACKED SALE 1 ~ 3 keys can handle the same commodity having different prices by means of quantity.

For example,	original PLU	BEER	2.00
	PACKED SALE 1	6 BEERs	12.00
	PACKED SALE 2	12 BEERs	24.00
	PACKED SALE 3	24 BEERs	48.00

By pressing **PACKED SALE 1 ~ 3** key, PLU code for packed PLU is automatically registered.

When 1/2 dozen of beer in 1 pack is sold, press **PACKED SALE 1** key first, then enter the original PLU.
PACKED SALE 1 key places the first digit with a value of '1' to the PLU code.
PLU code **1**00000000000000001

When 1 dozen of beer in 1 pack is sold, press **PACKED SALE 2** key first, then enter the original PLU.
PACKED SALE 2 key places the first digit with a value of '2' to the PLU code.
PLU code **2**00000000000000001

When 2 dozens of beer in 1 pack is sold, press **PACKED SALE 3** key first, then enter the original PLU.
PACKED SALE 3 key places the first digit with a value of '3' to the PLU code.
PLU code **3**00000000000000001

The following PLU codes are set:
000000000000000001: 1 beer (original)
100000000000000001: 1/2 dozen of beer
200000000000000001: 1 dozen of beer
300000000000000001: 2 dozens of beer

KEY ENTRY	DISPLAY (on the top)
BEER	
PACKED SALE 1 BEER	PACKED 1 key/symbol #66
PACKED SALE 2 BEER	PACKED 2 key/symbol #67
PACKED SALE 3 BEER	PACKED 3 key/symbol #68

RECEIPT

```
BEER                          2.00
6 BEER                       12.00
12 BEER                      24.00
24 BEER                      48.00
```

Depending on programming by [SF-67.a,b], the packed sale condition will be kept for one single registration, for one transaction or until the next **PACKED SALE** key is pressed.

Note for the PLU quantity

Because the packed PLU code is separate from original PLU code, price programming and management of sales and stock also should be done separately. The packed PLU is always registered as 1.

f) Price Shift

Every PLU can have two prices, the standard price and pending price (however, the sales are memorized into one PLU memory). The standard price is used for normal preset price, while the pending price for happy hour price, service price, etc.

Two methods are adopted to use the pending prices. One uses **PRICE SHIFT** key and the other uses pending price mode by programming. In either case, the standard price is registered automatically for PLU with "Standard PLU price used" [PF-3.b=0] setting. Set [PF-3.b=1] if pending price should be applied to the PLUs.

Std Price (key/symbol #52) displayed on the top is changed to Pnd Price (key/symbol #53) when PRICE SHIFT key is pressed or Pending Price Mode is applied.

Depending on programming [SF-66.c], turning the control key to the **X position** may be required to allow PRICE SHIFT key operation.

	Up to V2.40	**From V2.40**
Pending Price Mode [SF-67.c=1]	In this mode, all items set to "pending PLU price used" [PF-3.b=1] are registered by the pending price. Pending Price mode is kept until [SF-67.c=0] is set.	
PRICE SHIFT key for one transaction	[SF-67.d=1] Press PRICE SHIFT key <u>just before</u> that transaction. Shifted condition is kept for the next transaction. If the PRICE SHIFT key is pressed at the beginning of next transaction, shift condition is cancelled.	[SF-66.e,f=01][SF-67.c,d=01] Press PRICE SHIFT key <u>just before</u> that transaction. Shifted condition is cancelled for the next transaction automatically.
PRICE SHIFT key for a specific item	[SF-67.d,f=11] **from V2.00** Press PRICE SHIFT key just before that item. (It is <u>not</u> available if the transaction is begun with shifted condition.)	[SF-66.e,f=00/11][SF-67.c,d=01] Press PRICE SHIFT key just before that item. Shifted condition is cancelled for the next item.
PRICE SHIFT key until next PRICE SHIFT key depression	Same as "PRICE SHIFT key for one transaction" above.	[SF-66.e,f=10][SF-67.c,d=01] Press PRICE SHIFT key when you would like to start price shift condition. Shifted condition is cancelled by the next PRICE SHIFT key depression.

PF-3	**1/0**	**bit**	**1**	**0**
		b	Pending price available (see [SF-67.c,d])	Standard price

SF-66	**1/0**	**bit**	**1**	**0**
V2.40		c	Price shift requires to turn the control key to X position [CF-1.a=0]	to R position
V2.40		e	**PRICE SHIFT** key remains **[SF-67.d=1]**: [00 or 11] for one registration only [01] for one transaction only [10] until next **PRICE SHIFT** key depression Pending price is available by [PF-3.b=1].	
		f		

SF-67	**1/0**	**bit**	**1**	**0**
		c	Pending PLU price used (see [PF-3.b]) PRICE SHIFT key can not be used.	Standard PLU price used
		d	Pending PLU price used by **PRICE SHIFT** key **[c=0]** (see [PF-3.b])	not used
		f	Pending price used for one item during the transaction [c,d=1,1] (Deleted from V2.40 and [SF-66.e,f] is added instead.)	not used

g) Price Inquiry

PRICE INQUIRY key provides quick inquires for PLU prices, including the scalable item's price calculated by weight x unit price. The items are neither registered as a sale nor printed on a receipt.

To register PLU with price displayed, simply press **PLU** key.

To exit from the price inquiry mode, register the PLU or press **PRICE INQUIRY** key again and press **CL** key.

Bar Coded PLUs: [PRICE INQUIRY] --- scan the PLU --- price displayed --- press **PLU** key to register

Hard PLUs: [PRICE INQUIRY] --- [HARD PLU] --- price displayed --- press **PLU** key to register

Coded PLUs: [PRICE INQUIRY] --- enter PLU code --- [PLU] --- price displayed --- press **PLU** key to register

KEY ENTRY	DISPLAY (popped up)	RECEIPT
PRICE INQUIRY	PLU PRICE	
CARROT CAKE PLU (to register)	PLU PRICE CARROT CAKE 4.00	CARROT CAKE 4.00

h) Sales by Weight

ECR allows faster sales by weight when a scalable item or an item having the weight embedded in-store marking code is sold. Weight unit "kg" or "lb" is selectable and ECR handles scale types such as "standard", "USA/Canada/Quebec", "Australia", "EC" and "France". The print and display formats are different depending on the scale type. Refer to < Print Format > on page 28.

Program options
- scale type [SF-5.b,c,d]
- scale print format for USA scale type [SF-3.f,g]
- weight unit kg or lb [SF-5.e]

Contents of this section

< Using Scale >
< Using Weight Embedded Coded PLUs >
< Manual Weight Entry >
< Refund of Scalable Item >
< Multiple Pound Price for USA Scale Type Only [SF-5.b,c,d=100] >
< Tare Weight Entry >
< Print Format >

< Using Scale >

PLUs programmed as scalable PLUs are registered via scale.
- Place the item on the scale.
- Enter the scalable PLU.

The amount is calculated automatically by weight and unit price, and then displayed and printed on the receipt. It is possible to display the weight also if necessary, by pressing **SCALE** key after the item was placed on the scale.

Warning message #76 "Scale communication error/weight error" is displayed if the item weight on the scale exceeds the limit weight of the scale or the item weight is zero when **SCALE** key is pressed. Reduce the item on the scale or put the item if the weight display is zero to continue the operation.

BEEF unit price 10.00/kg has been set. (Standard Scale Type)

KEY ENTRY	RECEIPT
place item on scale SCALE (if necessary) * BEEF CASH	.33 kg 10.00 /kg BEEF 3.30 CASH 3.30 QUANTITY 1

Quantity count always added as 1 [SF-68.d=1] is selected printed by [SF-6.d=1]

* Weight indicated by **SCALE** key is displayed on the front display only. It does not show up on the rear display.

Preset price per "kg or lb" may be over-ridden by a price entered manually.

< Using Weight Embedded Coded PLUs >

Scan the weight embedded items' bar code. ECR calculates the price automatically by the weight in the bar code, and the item is registered.

Preset price per "kg or lb" may be over-ridden by a price entered manually. Refer to a) Manual Price Entry for sequence.

< Manual Weight Entry >

Weight can be entered manually by **ten-keys** and **X** key. The price is calculated by entered weight and unit price of scalable PLU. Manual weight entry is prohibited for USA scale type except for **REFUND** operation.

Bar Coded PLUs: (non-weight embedded code) enter the weight --- **X** --- scan the PLU

Hard PLUs: enter the weight --- **X** --- **HARD PLU**

Coded PLUs: enter the weight --- **X** --- enter PLU code --- **PLU**

After manual weight entry, the preset price per "kg or lb" may be over-ridden by a price entered manually.

PORK unit price 8.00/kg has been set. (Standard Scale Type)

KEY ENTRY
.52 [X]
PORK
CASH

DISPLAY (item line)
```
.52 kg  PORK        4.16
```

RECEIPT (Standard Scale Type)
```
.52 kg 8.00 /kg
PORK                    4.16
CASH                  4.16
          QUANTITY         1
```
Quantity count added as 1 by [SF-68.d=1]

2nd ~ 9th digits of Supplementary message #99 is printed for manual weight entry message for EC, USA, Australia and France scale type.

```
0.520 kg  PORK      *4.16
```

(USA Scale Type)
```
  0.520 kg
   Manually
   @ 8.00/kg
PORK                   *4.16
CASH                 *4.16
          QUANTITY         1
```
1st digit of Supplementary message #99 is used for currency symbol.

< Multiple Pound Price for USA Scale Type Only [SF-5.b,c,d=100] >

When "multiple pound price used" [PF-2.c] is programmed on the scalable PLU, the last digit of the PLU price is regarded as the weight so that the PLU can have a unit price with weight.

When the item is placed on the scale and the PLU is entered, the PLU will have an actual price calculated by the weight.

HAM unit price 1.00/kg has been set. Actually programmed as "1001". (100: price, 1: weight)

KEY ENTRY
place item on scale
SCALE (if necessary) -- a
HAM
CASH

RECEIPT
```
  0.370 kg
   @ 1 kg/1.00
HAM                     *0.37
CASH                  *0.37
#001-000004             15:40R
          CASHIER NAME 001
```

a: Weight indicated by **SCALE** key is displayed on the front display only. It does not show up on the rear display.

< Refund of Scalable Item >

- **Standard Scale Type**

When a scalable item is to be refunded, only standard scale type can refund the item by using scale.

place item on the scale --- enter tare weight --- (if required) --- **REFUND** --- scan the PLU or press **Hard PLU** key

place item on the scale --- enter tare weight --- (if required) --- enter PLU code --- **REFUND** --- **PLU**

When a manual weight entry is required, refer to the sequence for other scale types below;

- **Other Scale Types**

Except for standard scale type, weight must be entered manually. Scale can **not** be used for refund operation. Also item placed on the scale can **not** be refunded by France and USA scale types.

- **Note for USA Scale Type**

Refund must be done by entering weight manually. Because the weights at purchasing and refund may be different. So REFUND by using scale is prohibited. According to this limitation (manual weight entry prohibited), VOID is always done by using scale.

Bar Coded PLUs: (non-weight embedded code) enter the weight --- **X** --- **REFUND** --- scan the PLU

Hard PLUs: enter the weight --- **X** --- **REFUND** --- **HARD PLU**

Coded PLUs: enter the weight --- **X** --- **PRICE** --- enter PLU code --- **REFUND** --- **PLU**

< Tare Weight Entry >

This function adjusts the total weight to avoid the tare weight being added on the item weight. It is done either by using programmable 99 tare tables or by entering a tare weight manually.

Tare weight should be entered before entering scalable item. Also, when the tare weight is larger than item's weight, warning message #53 will be displayed.

- **Programmable 99 Tare Tables**

Ten-keys and **TARE** key are used to select pre-programmed tare weight.

Tare weight 45g (0.045kg) has been set to tare table #1.
255g of BEEF is placed on the scale. Then, scale indicates total weight 300g. You can see the weight of item itself by pressing SCALE key.

KEY ENTRY	DISPLAY (on the top)	RECEIPT (Standard Scale Type)
place item with vessel on scale		.255 kg 10.00 /kg BEEF 2.55 CASH 2.55
1 TARE	TR-01 0.045 kg	
SCALE (if necessary) -- a	0.255 kg TARE	
BEEF		
CASH		

a: You can see the weight of item itself excluding the tare weight.
It is displayed with 4-digit tare weight entry message (10th~14th digits of Supplementary message #99).

- **Manual Tare Weight Entry**

Tare weight can be entered manually by **ten-keys**, **X** and **TARE** keys if it is permitted by PLU function flag [PF-2.b]. The price is calculated by entered weight and unit price of scalable PLU.

Tare weight 0.02 kg (20g) is entered manually and 280g of BEEF is placed on the scale.
Then, scale indicates total weight 300g. You can see the weight of item itself by pressing SCALE key.

KEY ENTRY	DISPLAY (on the top)	RECEIPT (Standard Scale Type)
place item with vessel on scale		.28 kg 10.00 /kg BEEF 2.80 CASH 2.80
.02 [X] TARE	TARE 0.02 kg	
SCALE (if necessary) -- a	0.28 kg TARE	
BEEF		
CASH		

a: You can see the weight of item itself excluding the tare weight .
It is displayed with 4-digit tare weight entry message (10th~14th digits of Supplementary message #99).

< Print Format >

The print and display formats are different depending on the scale types, such as "standard", "USA/Canada/Quebec", "Australia", "EC" and "France".

Following example shows a case when HAM 40g was entered and amount .10 was discounted and 5 pcs of BANANAS were entered;

Standard Scale
place item on scale
HAM
10 ITEM (-)
5 X BANANAS
CASH

RECEIPT

```
.04 kg 10.00 /kg
HAM                          .40
ITEM <->                     .10Θ
5 X 2.00
BANANAS                    10.00
CASH                       10.30
```

USA/Canada/ Quebec Scale
place item on scale
HAM
10 ITEM (-)
5 X BANANAS
CASH

RECEIPT: USA

```
  0.040 kg
  @ 10.00/kg
HAM                         *0.40
ITEM <->                    *-0.10
  5.000 X
    @ 2.00
BANANAS                     *10.00
CASH                       *10.30
```

- Scalable item's name is fixed up to 13 characters for dot matrix printer, 19 characters for thermal printer.
- Programmable currency symbol (1st digit of supplementary message #99) shown by "*" above and "0" are displayed and printed automatically.
- Minus (-) symbol is displayed and printed between the currency symbol and minus amount.

Basically, the scale specifications for Canada and Quebec are the same as USA scale system. Only a print format of unit price is different depending on [SF-3.b,c] as follows:

USA
[SF-3.b,c=00/11]

```
  0.040 kg
  @ 10.00/kg
HAM                          $0.40
```

The local currency symbol is not printed.

Canada
[SF-3.b,c=01]

```
  0.040 kg
 @ $10.00/kg
HAM                          $0.40
```

Before unit price, the local currency symbol programmed by 1st digit of Supplementary Message #99 is printed.

Quebec
[SF-3.b,c=10]

```
  0.040 kg
  @ 10.00$/kg
HAM                          $0.40
```

Behind unit price, the local currency symbol programmed by 1st digit of Supplementary Message #99 is printed.

Australia Scale
place item on scale
HAM
10 ITEM (-)
5 X BANANAS
CASH

RECEIPT

```
0.040 kg
@ 10.00*/kg
HAM                          *0.40
ITEM <->                    *-0.10
5 pc
@ 2.00*/ea
BANANAS                     *10.00
CASH                       *10.30
```

EC Scale
place item on scale
HAM
10 ITEM (-)
5 X BANANAS
CASH

RECEIPT

```
0.040kg *10.00/kg
HAM                          *0.40
ITEM <->                    *-0.10
5.000 X *2.00
BANANAS                     *10.00
CASH                       *10.30
```

- Local currency symbol programmed by 1st digit of Supplementary Message #99 is printed automatically.
- Minus (-) symbol is displayed and printed between the currency symbol and minus amount.

France Scale
place item on scale
HAM
10 ITEM (-)
5 X BANANAS
CASH

RECEIPT

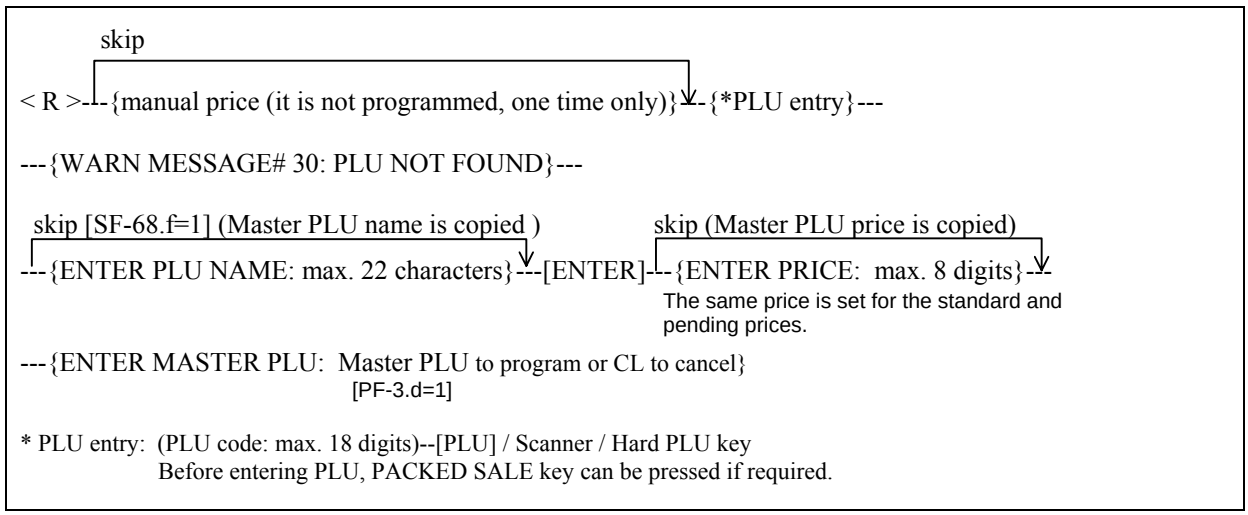
```
 .040 Kg x 10.00*/kg
HAM                          *0.40
ITEM <->                    -*0.10
5 X *2.00
BANANAS                     *10.00
CASH                       *10.30
```

- Local currency symbol programmed by 1st digit of Supplementary Message #99 is printed automatically.
- Minus (-) symbol is displayed and printed before the currency symbol.

i) User Friendly PLU Programming (new PLU created at registration)

This operation is an easier way of programming of Not Found PLU which has not been programmed in ECR yet. When a Not Found PLU is entered for the first time, ECR displays "WARN MESSAGE# 30" (PLU not found) with a catch buzzer.
Not Found PLU is memorized in the PLU memory having its code together with the master PLU's programmed contents such as link group-A, HALO, unit price (if entry skipped), name (if entry skipped by [SF-68.f]) and PLU flags except for "PLU used for Not Found PLU [PF-3.d=1]" in the following steps;

A new PLU having the PLU code can be created in R position if [SF-68.b=1] is set. All other data (like link group, PLU flag, etc.) will be copied automatically from master PLU [PF-3.d=1] and sales data for this PLU will be registered in the newly created PLU sales memory.


skip
< R >---{manual price (it is not programmed, one time only)}---{*PLU entry}---
---{WARN MESSAGE# 30: PLU NOT FOUND}---
skip [SF-68.f=1] (Master PLU name is copied)
skip (Master PLU price is copied)
---{ENTER PLU NAME: max. 22 characters}---[ENTER]---{ENTER PRICE: max. 8 digits}---
The same price is set for the standard and pending prices.
---{ENTER MASTER PLU: Master PLU to program or CL to cancel}
[PF-3.d=1]
* PLU entry: (PLU code: max. 18 digits)--[PLU] / Scanner / Hard PLU key
Before entering PLU, PACKED SALE key can be pressed if required.

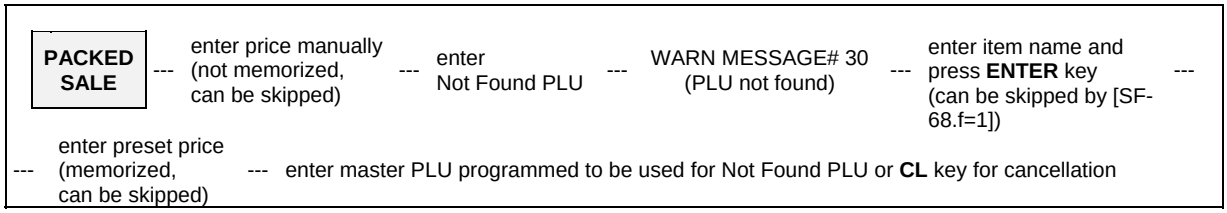
HERB TEA which has not been programmed is registered with manual entry price 1.50 and preset price 2.00.

KEY ENTRY	RECEIPT
150 -- manual price entry enter Not Found PLU "HERB TEA" -- name entry ENTER 200 -- preset price entry MASTER PLU CASH	HERB TEA 1.50 manual price CASH 1.50

Note: **PRICE INQUIRY** key can be used at the beginning of the sequence. Preset price of the PLU is displayed when the PLU for Not Found PLU is entered lastly. Then, you can simply press **PLU** key to register the Not Found PLU.

< New PLU for Packed Sales Item >

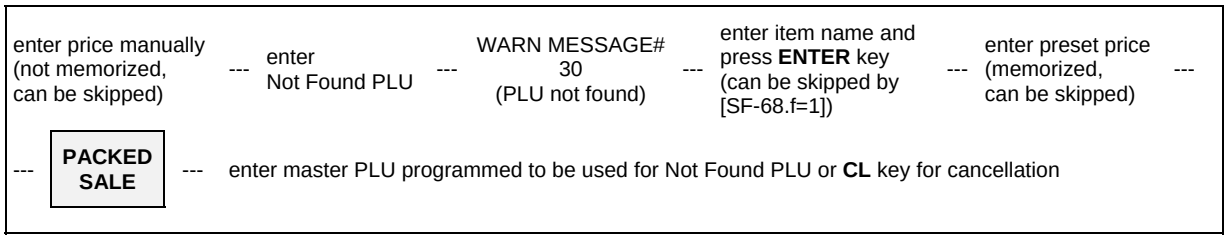
Press **PACKED SALE** key before Not Found PLU entry. PLU code for packed sale is programmed to replace 18th code with one of 1 ~ 3. Original PLU code entered is **not** programmed.


PACKED SALE
enter price manually (not memorized, can be skipped)
enter Not Found PLU
WARN MESSAGE# 30 (PLU not found)
enter item name and press ENTER key (can be skipped by [SF-68.f=1])
enter preset price (memorized, can be skipped)
enter master PLU programmed to be used for Not Found PLU or CL key for cancellation

In case of "**PACKED SALE** key remains for one transaction or until the next key depression" [SF-67.a,b=01/10], before entering Master PLU, press **PACKED SALE** key to cancel the packed sale condition. Otherwise WARN MESSAGE# 30 is displayed when Master PLU is entered if Master PLU have not been programmed for PACKED SALE.

< Master PLU is Packed Sales Item >

When the master PLU is a packed item, press **PACKED SALE** key after Not Found PLU entry. Original PLU code entered is programmed.


enter price manually (not memorized, can be skipped)
enter Not Found PLU
WARN MESSAGE# 30 (PLU not found)
enter item name and press ENTER key (can be skipped by [SF-68.f=1])
enter preset price (memorized, can be skipped)
PACKED SALE
enter master PLU programmed to be used for Not Found PLU or CL key for cancellation

j) Age Limitation by PLUs

One of three kinds of age limitation can be assigned to a PLU by [PF-5.a,b]. When age limited PLU is entered, "**WARN MESSAGE# 40**" (birthday input compulsory) is displayed. In order to continue the registration, perform the sequence below;

Birthday input is possible only one time in a single transaction.

enter age limited PLU --- WARN MESSAGE# 40 (birthday input compulsory) --- enter birthday DDMMYYYY MMDDYYYY (date order [SF-7.f]) --- **X or ENTER** --- age & birthday displayed --- **X or ENTER** --- age limited PLU is registered

The customer's age is calculated by today's date and entered date. When his/her age has not reached the programmed age, "**WARN MESSAGE# 43**" (can not be sold) is displayed. Press **CL** key to clear the warning message.

BEER & WINE linked to age table 1 (20 years old) are sold.

KEY ENTRY	DISPLAY (popped up)	RECEIPT
BEER		
03021975	WARN MESSAGE# 40	
ENTER		
ENTER	* 28 *	
WINE	MAR02/1975	
CASH		

```
          JUN05/2003
BEER                2.50
WINE                8.00
CASH               10.50
Birthday  MAR02/1975
```

customer's birthday is printed

Note: Birthday input condition can be released by **OFF COMPULSORY** key depression for one single transaction.

k) PLU Supplementary Message

One of 99 supplementary message is linked to a PLU. When the PLU is entered, the linked supplementary message is printed above the PLU line but it is not displayed.

SOAP FLAKE (linked to the supplementary message #1: natural) is sold

KEY ENTRY: SOAP FLAKE

RECEIPT

```
          natural
SOAP FLAKE          6.00
```

PLU supplementary message (not displayed)

l) Gas Item

There are two entry methods for gas item which are entered with gas amount and volume.

< Gas item is entered with amount >

The gas volume is calculated automatically by gas item's preset price and entered amount.

Enter gas amount --- [PLU (gas item)]

Gas item is entered with amount

KEY ENTRY		RECEIPT
600	entered amount = 6.00	6.129 G .979 /G
PLU 1	unit price = .979	PLU 1 GAS 6.00
CASH	6.00 / .979 = 6.128~~702~~ = 6.129 G	CASH 6.00

G or L symbol is programmable by [SF-108.a].

Note: Gas volume unit is limited up to 999.999. Therefore, if the price per litter is $1.000, the amount 999.99 (gas volume 999.990) can be entered but the amount 1000.00 is not allowed because it exceeds the limit volume 999.999.

< Gas item is entered with volume >

Enter gas volume (0.001 ~ 999.999) --- [X] --- [PLU (gas item)]

Gas item is entered with volume

KEY ENTRY		RECEIPT
20 X	20 gallons	20 G .979 /G
PLU 1	unit price = .979	PLU 1 GAS 19.58
CASH	20 x .979 = 19.58 G	CASH 19.58

G or L symbol is programmable by [SF-108.a].

< Receipt format of scale type EC and USA >

EC [SF-5.b~d=010]

```
20.000G MANUALLY
              *0.979 /G
PLU 1 GAS                 *19.58
CASH                    *19.58
```

USA [SF-5.b~d=100]

```
 20.000G
   MANUALLY
   @0.979/G
PLU 1 GAS                 *19.58
CASH                    *19.58
```

G or L symbol is programmable by [SF-108.a].
8-digit programmable message (MANUALLY) and 1-digit currency symbol (*) are always printed.
They are programmed by using 1st and 2nd~9th digits of supplementary message #99 (SP-142).

< Note for gas item used in GST system [SF-24.h=1] >

- Only Taxable 1 or non-taxable can be selected for GAS item. (Taxable 2 and Taxable 3 are not available.)
- The GST tax of GAS item will be printed on the receipt followed by GAS item line.
- Adjustment, % and discount operations will not affect GAS item's GST taxable even if they are programmed to affect taxable 1 by system function flags.

m) Store / Vendor Coupon

This function is used for discount by Coupon. There are Store Coupon and Vendor Coupon.

< **Store Coupon >**

Store coupon allows discount for a specified item which already registered in the transaction.

Enter coupon amount --- [STORE COUPON] --- [PLU]

STORE COUPON .50 is used on ICE CREAM.

KEY ENTRY	RECEIPT	
ICE CREAM	ICE CREAM	1.00
MILK	MILK	1.50
50 STORE COUPON	STR.COUPON	.50⊖
ICE CREAM	CASH	2.00
CASH		

< **Vendor Coupon >**

Vendor coupon amount is discounted form the subtotal amount.

Enter coupon amount --- [VENDOR COUPON]

VENDOR COUPON 1.00 is used.

KEY ENTRY	RECEIPT	
ICE CREAM	ICE CREAM	1.00
MILK	MILK	1.50
100 VENDOR COUPON	VND.COUPON	1.00⊖
CASH	CASH	1.50

Store and Vendor coupon are recorded by separate memories and you can see them on X-03 FULL TRANSACTION report.

4. R. PLU (Recyclable PLU)

Bottle deposit and empty bottle return is registered automatically by using the R. PLU function and **BOTTLE RETURN** key.

There are 341 R. PLUs besides the main PLUs. PLUs can be freely linked to one of the R. PLUs. Note that R. PLUs will be printed or not printed on the receipt by programming. Always combined price is shown on the display.

< Bottle Deposit >

For example, BOTTLED BEER (main PLU) is linked to BOTTLE (R. PLU). When selling a BOTTLED BEER by scanning the bottle, the BOTTLED BEER PLU (contents) and linked R. PLU (bottle) are automatically registered independently in the memory.

BOTTLED BEER is sold.

KEY ENTRY	RECEIPT
BOTTLED BEER CASH	BOTTLED BEER 2.30 BOTTLE .10 CASH 2.40 printed by [PF-3.e] (not displayed)

< Bottle Return >

When BOTTLE was returned, press **BOTTLE RETURN** key and enter BOTTLED BEER (main PLU). The returned bottle is controlled by separate deposit and return memories and you can see them on X-70 R. PLU report.

Empty bottle is returned by entering BOTTLED BEER (main PLU).

KEY ENTRY	DISPLAY (popped up)	RECEIPT
BOTTLE RETRUN	BTL RETURN	BOTTLE .10⊖
BOTTLED BEER CASH	BOTTLE -.10	CASH .10⊖

5. Media Closing

Up to 25 different media (total) keys may be used to close a transaction. In addition to these media keys, there are 10 preset tender keys, which have preset tendering amounts by programming, available to close a transaction by one-action.

The following closing methods are available.

Direct Closing : Press a media key directly.

registrations --- **TTL**

Tendering Input : Enter a tendered amount then press a media key.

registrations --- **SBTL** --- enter tendered amount --- **TTL**

SBTL key depression is required to see the due amount including add-on tax amount.

When entered amount is over the due amount, the change is calculated automatically in cash if "automatic change" [MF-2.e=0] has been programmed.
If "automatic change" has not been programmed by [MF-2.e=1], a designated media [MF-1.e for TTL 1 ~ 24] should be pressed for the change as follows:

registrations --- **SBTL** --- enter tendered amount --- **TTL** --- **TTL**

change media

Over-Tendering, Automatic Change [MF-2.e=0]

KEY ENTRY	RECEIPT		
PLU 1	PLU 1	1.00	
PLU 2	PLU 2	2.00	
SBTL	SUBTL	3.00	subtotal printed by [SF-81.g]
500	DUE AMOUNT	3.00	
CASH	CASH	5.00	
	CHANGE	2.00	

Over-Tendering, Manual Change [MF-2.e=1]

KEY ENTRY	RECEIPT		
PLU 1	PLU 1	1.00	
PLU 2	PLU 2	2.00	
SBTL	SUBTL	3.00	
500	DUE AMOUNT	3.00	
CASH	CASH	5.00	
CASH	CHANGE		
	CASH	2.00	designated media key name printed below the change symbol

Preset Tendering : One-action closing to speed up tendering by use of a preset tender key.
Preset tendering amount is memorized in the memory of pre-programmed media by SP-253.

registrations --- **SBTL** --- PRESET TENDER

Media Multiplication : Simply multiplying the preset tender amount will facilitate the closing transaction.
This function is available only when using one of 10 preset tender keys.

registrations --- **SBTL** --- enter number of pieces --- **X** --- PRESET TENDER

Automatic Closing by Cashier iButton (option) :

If [SF-11.f] is selected, when the cashier iButton is removed, the transaction is closed automatically by **CASH/TTL 25** key. For an amount track operation, it is closed by **NEW BALANCE** key.

Closing by Credit Card (option) :

When a media key programmed for **CARD** key is pressed, "WARN MESSAGE# 48" (swipe card) is displayed. The transaction is closed by swiping a credit card and the card number is printed below the media key name.

Real-time card verification function is also available with a PC via IRC line.
It sends the card data (number and payment amount) swiped on ECR to a PC. Then PC sends the classification in 20-digit message with one of six (6) message types back to ECR. Depending on the received message type, ECR prints and displays the classification message or ECR is locked giving a buzzer sound.

Media Options by Media Flags:

- Tendered amount input compulsory
- Tendered amount input prohibited
- Over-tendered amount input prohibited
- Short-tendered amount input prohibited for **TTL 25/CASH** key only
- Change operation permitted
- This media key opens drawer
- Drawer assignment
- Media amount added to CID memory
- Print format of this media amount with/without zero
- Punctuation position of this media
- Media (one blank line is inserted by [SF-6.b])
- Media amount rounding method
- Cheque-cashing function (refer to 10. Cheque Cashing/Cheque Printing section)
- Cheque-printing (refer to 10. Cheque Cashing/Cheque Printing section)

6. Foreign Currency

Any media may be programmed for foreign currency media by [MF-3.e~h] except for **TTL 25** key which is used for local currency. **Foreign Currency Media** keys can be used the same way as a local currency media, including the R/A, P/O and Cash Declaration operations.

a) Closing Methods

Direct Closing : Press **Foreign Currency Media** key directly, without a tendered amount input.

Tendering Input : Before a foreign currency tendering amount is entered, **F.C. SBTL** and **F.C. Media** keys must be pressed to show the total amount in foreign currency. Then enter the foreign currency tendering amount and press the same **F.C. Media** key again.

registrations --- **F.C. SBTL** --- **F.C. MEDIA** --- due amount of foreign currency displayed --- enter foreign currency amount --- **F.C. MEDIA**

The change is calculated automatically in local currency if "automatic change" [MF-2.e=0] has been programmed. If "automatic change" has not been programmed, a designated media should be pressed for the change.

Direct Closing by Foreign Currency

KEY ENTRY
GERMAN WINE
F.C. MEDIA

RECEIPT

```
GERMAN WINE              10.00
DUE AMOUNT               10.00
  0.9345  *              10.00
FC MEDIA                 ¤1070
```

due amount of local currency
foreign currency rate x due amount of local currency
foreign currency amount

Over-Tendering by Foreign Currency

KEY ENTRY
GERMAN WINE
F.C. SBTL

DISPLAY (popped up)

```
F.C. SBTL
              10.00
```

F.C. MEDIA

1500 F.C. MEDIA

```
F.C. SBTL
FC MEDIA
              1070
```

RECEIPT

```
GERMAN WINE              10.00
DUE AMOUNT               10.00
  0.9345  *              14.02  a
FC MEDIA                 ¤1500¤ b
CHNGE                     4.02  c
```

a: tendering amount in local currency is calculated from tendering amount in foreign currency (1500 x 0.9345)
b: tendering amount in foreign currency
c: automatic change amount in local currency (430 x 0.9345)

b) Currency Exchange

In order to exchange a foreign currency to the local currency, enter the foreign currency amount and press **F.C. Media** key at the beginning of a transaction. The ECR automatically subtracts a service charge amount which is calculated by a programmed charge rate (Z1/P-377).

The currency exchange operation is allowed depending on media function flag [MF-2.h] for TTL 1 ~ 24.

Currency Exchange

KEY ENTRY
30000
F.C. MEDIA

RECEIPT

0.9345	*		280.35	a
FC MEDIA			₴30000₴	b
CHARGE	5	%⊖	14.02⊖	c
CHANGE			266.33	d

a: tendering amount in local currency is calculated from tendering amount in foreign currency (30000 x 0.9345)
b: tendering amount in foreign currency
c: currency exchange rate (key/symbol #14)
charge amount in local currency is calculated from the programmed charge rate (280.35 x 5%)
d: cashing amount in local currency

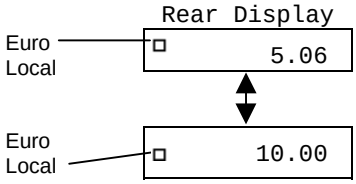
7. Euro Currency

A payment by the Euro currency is done by an **Euro media** key ([MF-3.e~h]). When a transaction is closed by **Euro media** key, the due amounts in local and Euro currencies are printed on the receipt. If taxable items are included in the transaction, the Euro taxable amount and tax are also printed separately from the local taxable amount and tax. Euro amount is calculated by "local amount x Euro rate".

< Display Method of Euro Currency System >

When **SBTL** key is pressed during a transaction, the display shows both local and Euro amount on the front display. On the rear display, it switches between Euro and local currencies in one second. Also, it can be manually switched by depression of **SBTL** key according to [SF-64.d] selection.

Front Display (popped up)



< Print Formats of Euro Currency System >

Either "Euro and currency symbols are printed or not printed [SF-65.b]" and "one space or no space between Euro currency & currency symbols and the amount [SF-64.h]" can be selected by programming.

Note: Tax lines in local and Euro currencies are printed when "VAT data printed" [SF-22.h] is selected.

The receipt format will be like the following samples:

a) Direct Closing by Local Currency in Euro Currency System

Euro & currency symbols printed [SF-65.b=0]

```
PLU                              10.00
DUE AMOUNT                   DM 10.00
                     --------------------
                                € 5.06
                 € 1.00 =    DM 1.97719
-----------------------------------------
CASH                         DM 10.00
VATSALE                       DM 9.10
VAT                            DM .90
-----------------------------------------
VATSALE                       € 4.60
VAT                            € .46
```

due amount (local)
--- only for reference ---
due amount (Euro) *1
Euro currency exchange rate *1
---
directly closed by cash
VAT sales (local)
VAT amount (local)
--- only for reference ---
VAT sales (Euro) *2
VAT amount (Euro) *2

Euro & currency symbols not printed [b=1]

```
PLU                              10.00
DUE AMOUNT
 LOCAL                           10.00
                     --------------------
 EURO                             5.06   *1
                EURO 1.00 =  1.97719   *1
-----------------------------------------
CASH                            10.00
VATSALE                          9.10
VAT                               .90
-----------------------------------------
VATSALE EURO                     4.60   *2
VAT     EURO                      .46   *2
```

*1 These are printed/displayed by [SF-65.a]. When "due amount in Euro currency printed/displayed" is selected, either "Euro currency exchange rate is printed/displayed or not printed/displayed [SF-65.d]" can be selected.
*2 These are printed by [SF-24.a].

b) Direct Closing by Euro Currency

Euro & currency symbols printed [SF-65.b=0]

```
PLU                              10.00
DUE AMOUNT                   DM 10.00
                                € 5.06
                € 1.00 = DM 1.97719
EURO                            € 5.06
                          (= DM 10.00 )
VATSALE                       DM 9.10
VAT                            DM .90
-----------------------------------------
VATSALE                       € 4.60
VAT                            € .46
```

due amount (local)
due amount (Euro) always printed *1
directly closed by Euro *2
VAT sales (local) *3
VAT amount (local) *3

VAT sales (Euro) *3
VAT amount (Euro) *3

Euro & currency symbols not printed [b=1]

```
PLU                              10.00
DUE AMOUNT
 LOCAL                           10.00
 EURO                             5.06
                EURO 1.00 =  1.97719   *1
EURO                             5.06
                               (= 10.00 )  *2
VATSALE                           9.10   *3
VAT                                .90   *3
-----------------------------------------
VATSALE EURO                      4.60   *3
VAT     EURO                       .46   *3
```

*1 Euro currency exchange rate is printed/displayed by [SF-65.d].
*2 Calculated amount in local currency is printed by [SF-64.e].
*3 These tax lines are printed by [SF-22.h].

c) Direct Closing by Foreign Currency in Euro Currency System

When "Foreign currency exchanged directly" [MF-1.h] is selected, the print format of foreign currency exchange rate will be as follows;

Foreign currency exchange rate =
Foreign currency / Local currency [MF-1.h=1]
Euro & currency symbols printed [SF-65.b=0]

```
PLU                              10.00
DUE AMOUNT                   DM 10.00
                             FF 33.54
              DM 1.00 * FF 3.353876
FRANC                        FF 33.54
                          (= DM 10.00 )
VATSALE                       DM 9.10
VAT                            DM .90
```

due amount (local)
due amount (foreign)
foreign currency exchange rate *
directly closed by foreign currency
calculated amount in local currency

Foreign currency exchange rate =
Local currency / Foreign currency [MF-1.h=0]
Euro & currency symbols not printed [b=1]

```
PLU                              10.00
DUE AMOUNT
 LOCAL                           10.00
                                 ₣33.54
                  1.00 / ₣ .298162
FRANC                            ₣33.54
                               (= 10.00 )
VATSALE                           9.10
VAT                                .90
```

* Foreign currency exchange rate is printed/displayed by [SF-65.c].

"Due amount in Euro currency and rate not printed/displayed" [SF-65.a] is selected on these samples.

8. Food Stamp

The food stamp operation is possible only when "**food stamp system**" [SF-4.g=1] and "**add-on tax system**" [SF-21.a=1] have been selected.

Any media key can be programmed as **Food Stamp Media (F.S. Media)** key by [MF-3.e~h=1010], except for **TTL 25**.

a) Food Stamp Closing Methods

Direct Closing : When the transaction amount can be paid by food stamps and if the amount under punctuation is zero, the transaction can be closed directly by **Food Stamp Media** key. If the food stamp amount under punctuation is **not** zero, the direct closing is permitted by [SF-7.a=1].

Press **Food Stamp Subtotal** key before depressing **F.S. Media** key.

registrations --- **F.S. SBTL** --- due amount of food stamp displayed --- **F.S. MEDIA**

KEY ENTRY	DISPLAY (popped up)	RECEIPT
BREAD F.S. SBTL	F.S. SBTL 1.00	BREAD㊀ 1.00 FOOD STAMP 1.00
FOOD STAMP		Bread is programmed as a food stampable item [PF-2.d=1]. [SF-22.d=1] food stamp symbol printed

Food stamp item and normal item are sold.

KEY ENTRY	DISPLAY (popped up)	RECEIPT
BREAD F.S. SBTL	F.S. SBTL 1.00	BREAD㊀ 1.00 BEER 2.50 FOOD STAMP 1.00 CASH 2.50 (food stamp item / normal item)
FOOD STAMP	SUBTOTAL 2.50	The remaining amount for normal item is displayed automatically.
CASH		

Tendering Input : Before entering food stamp tendering amount, **F.S. SBTL** key must be pressed to show the food stamp total amount.

registrations --- **F.S. SBTL** --- due amount for food stamp displayed --- enter food stamp amount --- **F.S. MEDIA**

The change is calculated in food stamp automatically, if there is a change in food stamps.

If there is an outstanding change and "automatic change" was programmed, the change will be calculated in local currency. If "automatic change" was not programmed, a designated media should be pressed for the change.

If it is programmed by [SF-7.a=1], "food stamp tendering amount under punctuation is not zero" can be entered.

Please note, if **CL** key was pressed after pressing of **F.S. SBTL** key, the food stamp tendering mode will be cancelled. So **F.S. SBTL** key has to be pressed again in order to revive the food stamp tendering.

Furthermore, note that once one of the normal media keys was pressed, food stamp operations can not be carried out.

Food stamp over-tendering

KEY ENTRY	DISPLAY (popped up)
BREAD	
MILK	
SHAMPOO	
F.S. SBTL	F.S. SBTL 2.50
1000	
FOOD STAMP	
CASH	

RECEIPT

BREAD FS	1.00	food stamp item
MILK FS	1.50	food stamp item
SHAMPOO	2.75	normal item
FOOD STAMP	10.00 TD	a
CHANGE		b
FOOD STAMP	7.00	
DUE AMOUNT	5.25	c
CASH	2.25	d

a: food stamp over-tendering
b: change in food stamp
c: food stamp item + normal item
d: SHAMPOO 2.75 - change in cash left .50

Food stamp short-tendering
SBTL key must be pressed to change the food stamp short tendering into cash tendering

KEY ENTRY	DISPLAY (popped up)
BREAD	
MILK	
SHAMPOO	
F.S. SBTL	
200	
FOOD STAMP	
SBTL	SUBTOTAL 3.25
CASH	

RECEIPT

BREAD FS	1.00	food stamp item
MILK FS	1.50	food stamp item
SHAMPOO	2.75	normal item
FOOD STAMP	2.00 TD	a
DUE AMOUNT	5.25	b
CASH	3.25	c

a: food stamp short-tendering (.50 short)
b: food stamp item + normal item
c: SHAMPOO 2.75 + cash left .50

b) Tax of Food Stamp System

The food stamp system requires the use of add-on tax system. If programmed by [SF-22.d=1], the food stamp symbol and the tax symbol are printed as follows;

FS	non-taxable food stamp item
F1	taxable 1 food stamp item
F2	taxable 2 food stamp item
F3	taxable 3 food stamp item

c) General Type / Illinois Type

There are two types of food stamp functions. One is known as "General" type and the other as "Illinois" type. The difference between these tow types is the tax calculation method only.

General Type [SF-4.f=0]

If a food stampable item is programmed as a taxable item, the tax is always charged and printed separately from the taxable items of non-food stampable. However, the tax amount of food stampable items will be memorized together with the normal tax.

Illinois Type [SF-4.f=1]

Even if a food stampable/taxable item is registered, the tax is not charged unless the food stamp tendering is in shortage. If the food stamp tendering is in shortage, the tax is charged on the remaining amount.

9. Cheque Cashing / Cheque Printing

a) Cheque Cashing

In order to exchange a Cheque for local currency, enter the cheque amount and press a **Media** key which has been programmed for cheque cashing [MF-2.h=1] at the beginning of a transaction. The ECR automatically subtracts a service charge amount which is calculated by using a programmed charge rate (Z1/P-377).

KEY ENTRY	RECEIPT				
1000	CHEQUE			10.00Ⓟ	cheque amount
CHEQUE	CHARGE	10	%Ⓐ	1.00Ⓐ	-- a
	CHANGE			9.00	cashing amount

a: cheque-cashing exchange rate (key/symbol #14), charge amount

b) Cheque Printing on Slip Printer (TP-620)

A cheque is printed only when the transaction is closed by pressing a **Media** key which has been programmed for cheque [MF-3.e~h] depending on programming [SF-64.c].

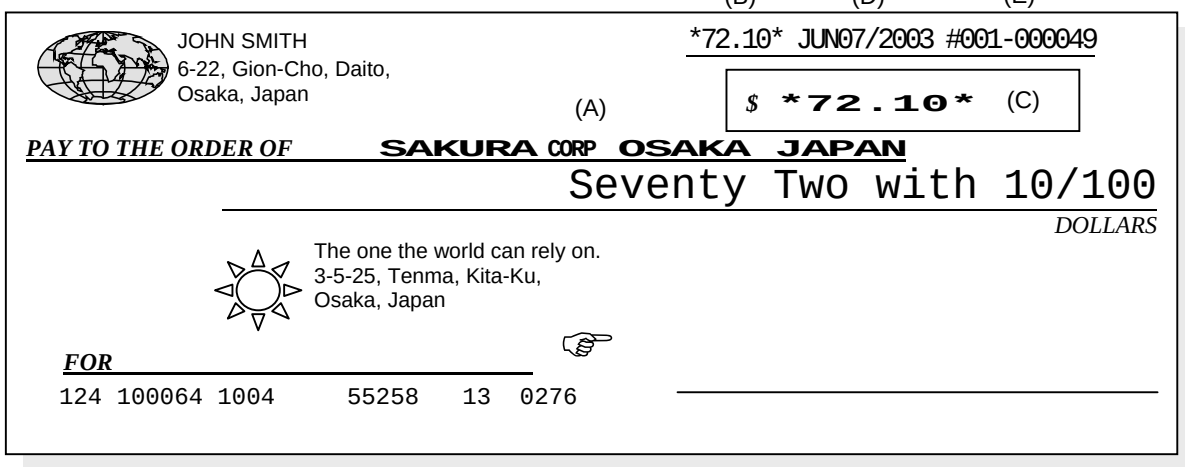
The following contents are printed on a cheque using a slip printer (the print positions are programmable):
- cheque message (A)
- total amount in normal-size characters (B)
- total amount in double-width characters (C)
- date (D)
- ECR machine number, consecutive receipt number (E)

Depending on programming [SF-64.b], there are two ways to print a cheque.

1. **Manual cheque printing when a transaction is closed by Cheque Media key**
   Even if a cheque has not been set on the slip printer, the cheque printing data will be sent to the printer and a warning message will be displayed on both the ECR and the slip printer.

2. **Automatic cheque printing when a transaction is closed by Cheque Media key and a cheque has been inserted into the slip printer**
   In this case, if a cheque has not been set on the slip printer when pressing **Cheque Media** key, the cheque printing function will be **automatically canceled** and no warnings will appear.

Cheque Sample



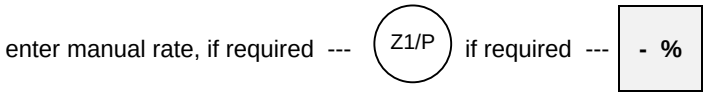
10. % Mark-up / Mark-down

The key operation determines whether the mark-up/-down is calculated on the item or subtotal. For mark-up/-down on item, press **%** key immediately after the item is entered. For mark-up/-down on subtotal, press **SBTL** key before pressing **%** key.

The following depend on programming [SF-40~42];

- a manual rate entry is permitted or prohibited;
- mark-up/down amount always affects or does not affect the taxable subtotal;
- mark-up/down on item or on subtotal operation permitted or prohibited.

Only for "-%", turning the control key to the **Z1/P position** may be set as required by programming [SF-32.f].



Mark-up (on item) : %1 key has been programmed for mark-up of 5%

KEY ENTRY	RECEIPT
BEER	BEER 2.50
ROAST BEEF	ROAST BEEF 14.00
%1	5 %
CASH	% 1 .70
	CASH 17.20

rate is printed but not displayed

Mark-down (on subtotal) with manual rate entry: %2 key has been programmed for mark-down of 5%

KEY ENTRY	RECEIPT
BEER	BEER 2.50
ROAST BEEF	ROAST BEEF 14.00
SBTL	SUBTOTAL 16.50
4 %2	16.50 X 4 %⊖
CASH	% 2 .66⊖
	CASH 15.84

	THANK YOU
	HAVE A NICE DAY
	**********
	You Saved .66

subtotal printed by [SF-81.g]
rate is printed but not displayed

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

11. Adjustment (Automatic % on Specific Items)

The adjustment function is provided for Membership discounts, Whole-sales prices, Employees, etc. Each PLU can be assigned to one of four adjustments by programming [PF-1.e~h]. Mark-up and Mark-down are presettable on each item, saving the trouble of manually entering rates.

The depression of **ADJUSTMENT 1 ~ 4** keys after entering items will calculate the mark-up/down amount. After an adjustment key depression, only a closing operation by a media key or NEW BALANCE key is permitted.

Depending on programming [SF-36~39], adjustment amount affects or does not affect the taxable subtotal, and turning the control key to the **Z1/P position** may be set as required by programming [SF-34.c~f].

<Example>

ADJUST 1	**Adjustment 1** key is used for price reduction (2%-)
ADJUST 2	**Adjustment 2** key is used for price reduction (5%-)

ADJUST 1 : CAKE = Adjustable 1 item, COFFEE = Adjustable 2 item

KEY ENTRY
CAKE
COFFEE
ADJUST 1
CASH

RECEIPT

```
CAKE                          1.50
COFFEE                        1.00
1.50 X 2 %@
AJST1                          .03@
CASH                      2.47
-----------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                    .03
```

adjustable 1 amount x adjustment 1 rate * adjustment 1 amount

---

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

* rate is printed but not displayed

ADJUST 1&2 : CAKE = Adjustable 1 item, COFFEE = Adjustable 2 item

KEY ENTRY
CAKE
COFFEE
ADJUST 1
ADJUST 2
CASH

RECEIPT

```
CAKE                          1.50
COFFEE                        1.00
1.50 X 2 %@
AJST1                          .03@
1.00 X 5 %@
AJST2                          .05@
CASH                      2.42
-----------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                    .08
```

If an optional card reader is fitted and Adjustment Cards have been prepared by a card writer, Adjustment Cards like membership card also perform the adjustment automatically by swiping.

12. Item Discount / Subtotal Discount

The amount discount keys **ITEM (-)** and **SBTL (-)** are used to subtract an amount of money from the item or the subtotal of sale. The amount for discount should be entered manually.

Note that **SBTL (-)** does not affect PLU sales memory shown on the reports, while **ITEM (-)** does affect.

The followings depend on programming;

- **ITEM (-)** or **SBTL (-)** operation permitted or prohibited by [SF-43,44.h].
- discount amount affects or does not affect the taxable subtotal of add-on tax by [SF-43,44.e~g]. (always affects the taxable subtotal of VAT)
- turning the control key to **Z1/P position** may be required by [SF-32.e].

enter manual discount amount --- (Z1/P) if required --- [**ITEM (-)** or **SBTL (-)**]

ITEM (-): Amount discount on item

KEY ENTRY
HAMBUGER
COFFEE
30 ITEM (-)
CASH

RECEIPT

```
HAMBURGER                    3.50
COFFEE                       1.00
ITEM <->                      .30⊖
CASH                       4.20
-----------------------------------
          THANK YOU
       HAVE A NICE DAY
     ******************
You Saved                   .30
```

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

SBTL (-): Amount discount on subtotal

KEY ENTRY
HAMBUGER
COFFEE
30 SBTL (-)
CASH

RECEIPT

```
HAMBURGER                    3.50
COFFEE                       1.00
SUBTOTAL                     4.50
SBTL <->                      .30⊖
CASH                       4.20
-----------------------------------
          THANK YOU
       HAVE A NICE DAY
     ******************
You Saved                   .30
```

subtotal automatically printed by [SF-81.g=1]

13. Quantity Discount

This quantity discount function provides various automatic discount sales in relation to quantity sold. In order to deal with these various discount sales, there are six discount types. You can assign one of these discount types to 300 tables.

When items assigned to one of these types were registered, they are automatically discounted depending on the quantity discount types, such as;

a) Bucket Sale
special price sales on certain quantity --- even when mixed items are sold different unit prices

b) Amount Discount on Bucket Sales
fixed discount sales on certain quantity --- even when mixed items are sold with different unit prices

c) Free on Multi-Buy --- one item for free on multiple quantities of **same** item

d) Per Customer Discount
purchasable quantity of special priced items is limited per customer
--- quantity more than limited is sold at standard price

e) Per Customer Limit --- purchasable quantity of items is limited per customer

f) Percent Discount on Bucket --- fixed % discount on certain quantity

a) Bucket Sale

For example, when a sales of three pieces of any items linked to quantity discount table is priced at 1.00, the set up is as follows;

Quantity discount type	Bucket sale (table name: Disct001)
Quantity in bucket	3
Bucket price	1.00
Quantity discount table linked to	CHEWING GUM A (unit price .40) CHEWING GUM B (unit price .45)

Three pieces of Chewing Gum are sold at 1.00.
The amount of third item is adjusted to have bucket price 1.00.

KEY ENTRY
CHEWING GUM A
CHEWING GUM A
CHEWING GUM B
CASH

RECEIPT

```
CHEWING GUM A                .40
CHEWING GUM A                .40
CHEWING GUM B                .45
     Disct001                .25⊖
CASH                    1.00
```

discount amount printed by [QDF-3.g=1]

Discounted price (.45-.25=.20) is displayed for CHEWING GUM B.

```
CHEWING GUM A                .40
CHEWING GUM A                .40
CHEWING GUM B                .20
CASH                    1.00
-----------------------------------
          THANK YOU
       HAVE A NICE DAY
      ******************
You Saved                    .25
```

discount amount not printed [QDF-3.g=0]
The last item is adjusted to have bucket price.

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

b) Amount Discount on Bucket Sales

For example, when a sales of three pieces of any items linked to quantity discount table discounts .30, the set up is as follows;

Quantity discount type	Amount discount on bucket sales (table name: Disct002)
Quantity in bucket	3
Discount amount	.30
Quantity discount table linked to	OIL SARDINE (unit price 1.80) TUNA CAN (unit price 1.50)

Three cans are sold and .30 is discounted from the third item.

KEY ENTRY
2 X
OIL SARDINE
TUNA CAN
CASH

RECEIPT

```
2 X 1.80
OIL SARDINE                  3.60
TUNA CAN                     1.50
      Disct002                .30-
CASH                       4.80
```

discount amount printed by [QDF-3.g=1]

Discounted price (1.50-.30=1.20) is displayed for TUNA CAN.

```
2 X 1.80
OIL SARDINE                  3.60
TUNA CAN                     1.20
CASH                       4.80
-----------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                   .30
```

discount amount not printed [QDF-3.g=0]
The last item is adjusted to have bucket price.

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

c) Free on Multi-Buy

For example, when a sales of the same three items linked to quantity discount table registers one item for free, the set up is as follows;

Quantity discount type	Free on multi-buy (table name: Disct003)
Quantity in bucket	3
Discount amount	not programmed
Quantity discount table linked to	TOOTH PASTE (unit price 1.50)

Two tooth pastes are sold and one extra tooth paste is sold as free.

KEY ENTRY
TOOTH PASTE
TOOTH PASTE
TOOTH PASTE
CASH

RECEIPT

```
TOOTH PASTE                  1.50
TOOTH PASTE                  1.50
TOOTH PASTE                  1.50
      Disct003               1.50-
CASH                       3.00
```

discount amount printed by [QDF-3.g=1]

".00" (free) is displayed for the last TOOTH PASTE.

```
TOOTH PASTE                  1.50
TOOTH PASTE                  1.50
TOOTH PASTE                   .00
CASH                       3.00
-----------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                   1.50
```

discount amount not printed [QDF-3.g=0]
The last item is printed as free.

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

d) Per Customer Discount

For example, when special price items are sold, and up to two items linked to quantity discount table are sold at the special price but other items are sold at their standard price, the set up is as follows;

Quantity discount type	Per customer discount (table name: Disct004)
Quantity in bucket	2
Discount amount	.50
Quantity discount table linked to	MIXED VEGETABLE (unit price 1.50, special price 1.00) CORN CAN (unit price 2.50, special price 2.00)

Up to two items are sold at the special price.

KEY ENTRY
MIXED VEGETABLE
CORN CAN
CORN CAN
CASH

RECEIPT

```
MIXED VEGETABLE                1.50
      Disct004                  .50-
CORN CAN                       2.50
      Disct004                  .50-
CORN CAN                       2.50
CASH                          5.50
```

discount amount printed by [QDF-3.g=1]

discount amount printed by [QDF-3.g=1]
sold at normal price

Discounted prices are displayed for first two items.

```
MIXED VEGETABLE                1.00
CORN CAN                       2.00
CORN CAN                       2.50
CASH                          5.50
-------------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                      1.00
```

discount amount not printed [QDF-3.g=0]
discount amount not printed [QDF-3.g=0]

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

e) Per Customer Limit

Purchasable quantity of items are limited per customer. For example, up to two items linked to quantity discount table are sold, the third item can not be entered. Then the set up is as follows;

Quantity discount type	Per customer limit (table name: Disct005 -- not printed)
Quantity in bucket	2
Discount amount	not programmed
Quantity discount table linked to	DETERGENT (unit price 4.50)

Up to two detergents are sold. Third detergent entry caused a warning message.

KEY ENTRY
DETERGENT
DETERGENT
DETERGENT

CL
CASH

DISPLAY (popped up)

WARN MESSAGE# 50

RECEIPT

```
DETERGENT                      4.50
DETERGENT                      4.50
CASH                          9.00
```

f) Percent Discount on Bucket

For example, when a sales of three items linked to quantity discount table is made with 10% discount, the set up is as follows;

Quantity discount type	Percent discount on bucket (table name: Disct006)
Quantity in bucket	3
Discount %	10%
Quantity discount table linked to	T-SHIRT A (unit price 8.50) T-SHIRT B (unit price 9.50)

Three T-shirts are sold and 10% discounted from the sales.

KEY ENTRY
2 X T-SHIRT A
T-SHIRT B
CASH

RECEIPT

```
2 X 8.50
T-SHIRT A                    17.00
T-SHIRT B                     9.50
     Disct006                 2.65⊖
CASH                      23.85
```

discount amount printed by [QDF-3.g=1]
2.65 = (17.00+9.50) x 10% discount

Discounted price (9.50-2.65=6.85) is displayed for T-SHIRT B.

```
2 X 8.50
T-SHIRT A                    17.00
T-SHIRT B                     6.85
CASH                      23.85
-----------------------------------
            THANK YOU
         HAVE A NICE DAY
       ******************
You Saved                    2.65
```

discount amount not printed [QDF-3.g=0]

Total discount amount (key/symbol #89) printed with 3-line message (SP-122) by [SF-3.e=1]. Amount printed in vertically elongated by [SF-3.f=1] for thermal printer.

14. Last Item Correction

CR key is used to cancel the last-registered item.

Press **CR** key immediately after the wrong item or the wrong function key is registered. The corrected item is never printed on the post-receipt and slip printer.

COFFEE is corrected.

KEY ENTRY	DISPLAY	RECEIPT
CAKE		CAKE 1.50
COFFEE		COFFEE 1.00
CR	"CORRECTED" is displayed on the corrected item line.	---------- CORRECTED ----------
CASH		CASH 1.50

15. Void / Scroll Void

VOID key allows you to void an item registered in ongoing transaction. (In order to void an item registered by a series of key depression, the same key operation must be repeated.)

If a PLU has been registered for the items below, Scroll Void function is useful to void them. Scroll Void voids all these additional entries on the PLU automatically. So the same key operation is not required to repeat. Refer to the next page for the sequence.

Manual price entry, Multiplication, Split pricing, Item (-), % on item

Bar Coded PLUs: repeat same key operations (manual price, multiplication, etc.) --- **VOID** --- scan the PLU

Hard PLUs: repeat same key operations (manual price, multiplication, etc.) --- **VOID** --- **HARD PLU**

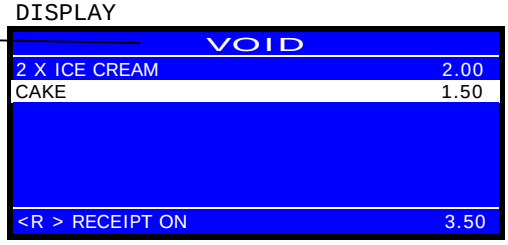
Coded PLUs: repeat same key operations (manual price, multiplication, etc.) --- enter PLU code --- **VOID** --- **PLU**

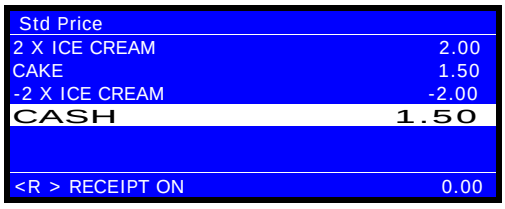
Depending on programming [SF-32.d], turning the control key to the **Z1/P position** may be required to allow voiding operations.

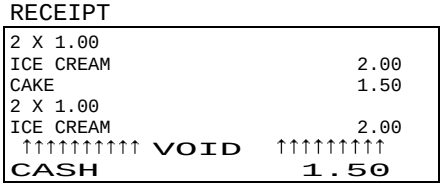
repeat same key operations for voided item --- (Z1/P) if required --- **VOID** --- (R) --- enter the PLU

Two ICE CREAMs are voided.

KEY ENTRY	DISPLAY	RECEIPT
2 [X]		
ICE CREAM		
CAKE		
2 [X] VOID		
ICE CREAM		
CASH		







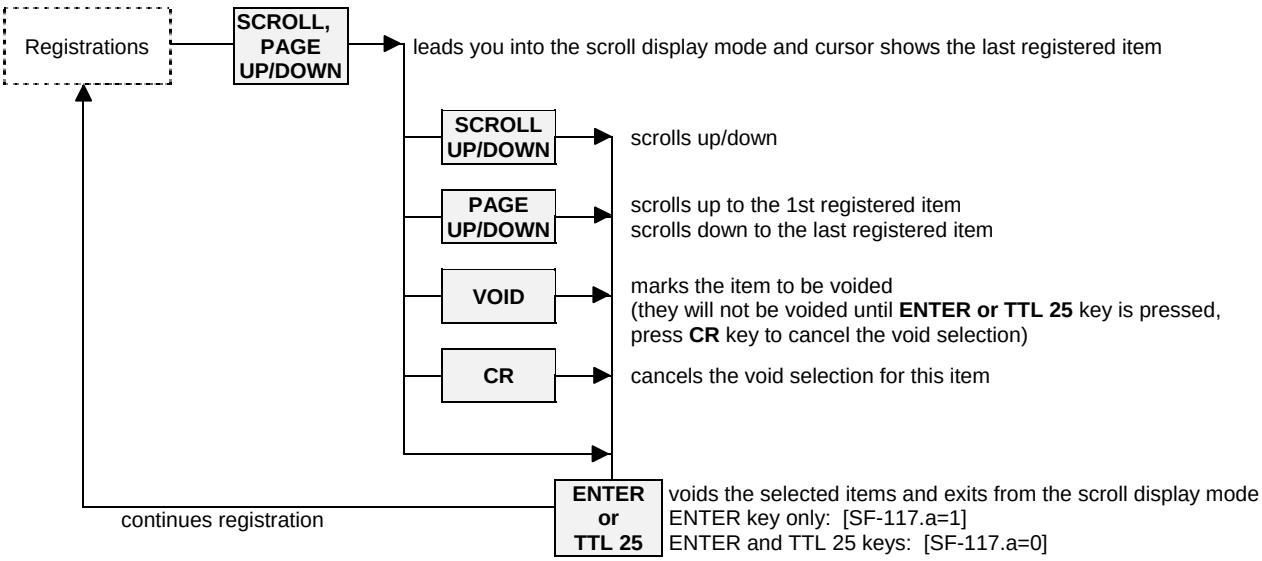
< Amount Track >

Items registered in an Amount Track can be canceled by voiding the previous item at any time before closing by a media key.

Scroll Void

During a transaction, you can **SCROLL** through or **PAGE UP/DOWN** to view all registered items and select items you wish to void.

1. During a transaction, press **SCROLL** or **PAGE UP/DOWN** key to enter scroll display mode.
2. Select an item you wish to void and press **VOID** key. (Press **CR** key to cancel the void selection.)
3. Selected items are finally voided by **ENTER or CASH/TTL 25** key by [SF-117.a].


Registrations
SCROLL, PAGE UP/DOWN
leads you into the scroll display mode and cursor shows the last registered item
SCROLL UP/DOWN
scrolls up/down
PAGE UP/DOWN
scrolls up to the 1st registered item
scrolls down to the last registered item
VOID
marks the item to be voided
(they will not be voided until ENTER or TTL 25 key is pressed,
press CR key to cancel the void selection)
CR
cancels the void selection for this item
ENTER or TTL 25
voids the selected items and exits from the scroll display mode
ENTER key only: [SF-117.a=1]
ENTER and TTL 25 keys: [SF-117.a=0]
continues registration

Scroll Void Operation Sequence
Two ICE CREAMs entered with a manual price are voided.

KEY ENTRY	KEY EXPLANATION	RECEIPT
2 [X] 100 MINT ICE CREAM CAKE	multiplication and manual price entry are done	2 X 1.00 MINT ICE CREAM 2.00 CAKE 1.50
SCROLL,PAGE UP/DOWN	(1) enters into the scroll display mode ("SCROLL DISPLAY MODE" is displayed on the top.)	2 X 1.00 MINT ICE CREAM 2.00 ↑↑↑↑↑↑↑↑↑↑ VOID ↑↑↑↑↑↑↑↑↑↑ CASH 1.50
SCROLL UP	(2) moves cursor to 2 X MINT ICE CREAM	
VOID	(3) selects item to be voided ("VOID" is displayed on the item to be voided.) No need to repeat the entries of multiplication and manual price entry. They are voided automatically when ENTER or CASH/TTL 25 is pressed.	
ENTER or CASH/TTL 25 CASH	(4) voids the selected items and exists from the scroll display mode	

< Notes for Scroll Void >

If a PLU has been registered with the following items, all these additional entries on the PLU are also selected automatically as void items;

- manual price entry
- multiplication, split pricing
- discount amount on item
- % on item

If the following operations on subtotal have been done, selecting void items are not operational until those operations are voided first by exiting from Scroll Void mode;

- discount amount on subtotal
- % on subtotal
- adjustment
- vendor coupon

If the following operations have been done, selecting void items are no longer operational. Then perform REG (-) operation instead of Scroll Void.

- quantity discount item
- manual tax entry
- tax exemption
- tendering amount entry

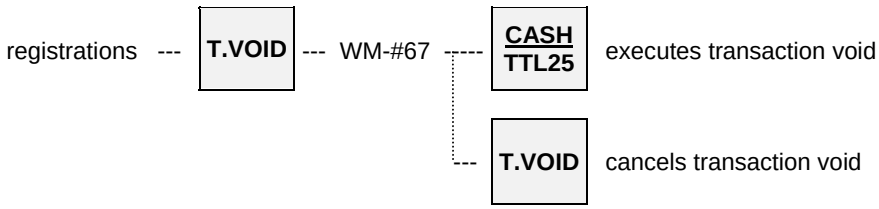
Message entry and amount track number can be selected for the Scroll Void operation.

Scroll Void is **not** operational when the functions of real-time communication are selected by [SF-4.a~d].

16. Transaction Void

Transaction Void can be done if you wish to cancel all the registrations in a transaction.
This is available only before the transaction is closed. (Transaction Void is **not** operational when the functions of real-time communication are selected by [SF-4.a~d].)

In order to cancel all the registrations, simply press **TRANSACTION VOID** key.
Then, the ECR shows Warning Message #67 "Are you sure to execute Transaction Void?".
Press **CASH/TTL 25** key to execute it (ENTER key is not available) or press **TRANSACTION VOID** key again to cancel it.



When [SF-32.d] is selected, you must turn the control key to the **Z1/P position** to allow transaction void.

Transaction Void

KEY ENTRY	DISPLAY (on the top)	RECEIPT
ICE CREAM		ICE CREAM 1.00
CAKE		CAKE 1.50
T.VOID	WARN MESSAGE# 67	↑↑↑↑↑↑↑↑↑↑↑↑ T.VOID ↑↑↑↑↑↑↑↑↑↑↑↑
CASH/TTL 25		

If the following operations have been done, Transaction Void is no longer operational. Then perform REG (-) operation instead of Transaction Void.

- quantity discount item
- manual tax entry
- tax exemption
- tendering amount entry

You can see the count and amount of Transaction Void on X-03 FULL TRANSACTION report.

17. Refund

REFUND key is used to refund a registered item after the transaction has been closed.
The ECR will not check to see if the refunded item was actually registered.

In order to refund an item registered by a series of key depression, the same key operation must be repeated.
Press **REFUND** key <u>after</u> entering the data (PLU code, manual price, etc.).

Bar Coded PLUs: repeat same key operations (manual price, multiplication, etc.) --- [REFUND] --- scan the PLU

Hard PLUs: repeat same key operations (manual price, multiplication, etc.) --- [REFUND] --- [**HARD PLU**]

Coded PLUs: repeat same key operations (manual price, multiplication, etc.) --- enter PLU code --- [REFUND] --- [**PLU**]

When [SF-32.c] is selected, you must turn the control key to the **Z1/P position** to do refund operation.

repeat same key operations for refunded item --- (Z1/P) if required --- [REFUND] --- (R) --- enter the PLU

ORANGE JUICE is refunded.

KEY ENTRY
REFUND
ORANGE JUICE
CASH

DISPLAY (on the top)

```
REFND
```

RECEIPT

```
ORANGE JUICE                    2.00
↑↑↑↑↑↑↑↑↑↑↑ REFND ↑↑↑↑↑↑↑↑↑↑↑
CASH                           2.00⊖
```

SLIP PRINTER

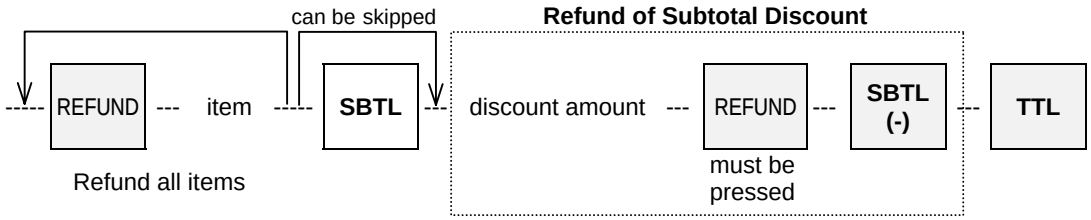
```
ORANGE JUICE                    2.00⊖
CASH                           2.00⊖
```

The refunded item is printed on the slip printer with a minus symbol but with no refund message.

Refund of Transaction with Subtotal Discount

Refund with Subtotal Discount can be done by the following operation although you can use REG (-) function in Z1/P position (see next page). **REFUND key must be pressed before SBTL (-) key.**

1. Refund all items.
2. Enter discount amount and press **REFUND** and SBTL(-) keys.
3. Close the transaction by pressing TOTAL (media) key.



Refund including Subtotal Discount

KEY ENTRY

REFUND BEER
REFUND WHITE WINE

50 **REFUND SBTL(-)**

CASH

RECEIPT

(before refund with subtotal discount)

```
BEER                          2.50
WHITE WINE                    5.00
SBTL <->                       .50⊖
CASH                        7.00
```

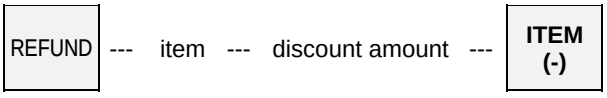
(after refund)

```
BEER                          2.50⊖
WHITE WINE                    5.00⊖
SBTL <->                       .50⊖
 ↑↑↑↑↑↑↑↑↑↑↑ REFND ↑↑↑↑↑↑↑↑↑↑↑
CASH                        7.00⊖
```

Refund with Item Discount

Refund with item discount can be done by the following operation. **NOT** necessary to press **REFUND key before ITEM (-)** key.

1. Refund item.
2. Enter discount amount and press **ITEM (-)** key.



18. Refund of All Items - REG (-)

In **Z1/P** position, **ITEM (-)** key is used to refund all entered items also.

After **ITEM (-)** key is pressed, enter the items which you wish to refund. Then close the REG minus transaction by pressing one of the Media keys. REG minus message is printed on the first and last lines of the receipt.

turn to Z1/P position --- **ITEM (-)** --- enter the items you wish to refund --- **MEDIA**

KEY ENTRY	DISPLAY (on the top)	RECEIPT
Z1/P position		
ITEM (-)	REG -	********** REG - **********
ORANGE JUICE		ORANGE JUICE 2.00
APPLE JUICE		APPLE JUICE 2.00
CASH		CASH 4.00
		********** REG - **********

During REG (-) operation, LCD display is inverted. If [SF-119.b=1] is selected, LCD display is not inverted.

You can see the count and amount of REG (-) on X-03 FULL TRANSACTION report.

19. Tax

Either a **VAT system** or **add-on tax system** can be programmed. Tax status can be programmed for each PLU.

	Add-On Tax System [SF-21.a=1]		**VAT System [a=0]**
Number of tax rates	Up to 3 tax rates or tax tables.		Up to 7 tax rates.
Tax calculation method	Tax is calculated by "add-on tax method" or "VAT method" by [SF-21.f~h]. **Add-on tax method**: Tax amount is charged separately from the price. **VAT method**: Tax amount is included in the price.		Tax amount is included in the price.
Operations	**add-on tax method**	**VAT method**	
Taxable subtotal display	Yes	No	No
Manual tax amount entry	Yes	No	No
Automatic tax exemption	Yes	No	No
Manual tax exemption	Yes	No	No
Tax shift	Yes	Yes	No
Programmable print items [SF-22]	**add-on tax method**	**VAT method**	
Tax symbol printed [SF-22.d]	Yes	Yes	Yes
Taxable amount printed [e]	Yes	Yes	Yes
Tax amounts printed separately/consolidated [g]	Yes	Yes	Yes
Zero tax amount printed [f]	Yes	Yes	Yes
VAT data printed [h]	---	Yes	Yes
VAT taxable amount printed with tax [c]	---	Yes	Yes

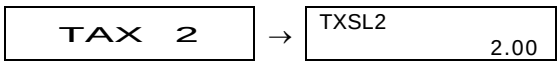
a) Taxable Subtotal Display --- only for add-on tax items calculated by add-on tax method

Taxable Subtotal Display

PLU entry --- **TAX SHIFT 1 ~ 3** --- **SBTL**

The taxable subtotal is displayed by using the proper **TAX SHIFT** key and **SBTL** key immediately after registering the PLU.

Display Example (popped up)



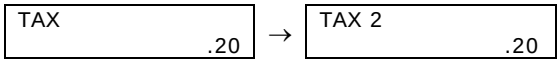
b) Manual Tax Entry --- only for add-on tax items calculated by add-on tax method

Manual Tax Entry

PLU entry --- manual tax amount --- **TAX** --- **TAX SHIFT 1 ~ 3**

After it is performed, all other operations are prohibited, except for a media closing.

Display Example (popped up)



RECEIPT

PLU-NAME 0001	1.00
PLU-NAME 0002	2.00
TXSL2	2.00
TAX 2	0.20
CASH	3.20

non-taxable item
taxable 2 item
manual tax

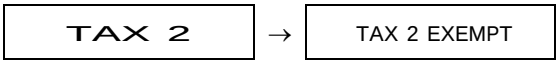
c) Tax Exemption --- only for add-on tax items calculated by add-on tax method

Manual Tax Exemption (available if permitted by programming [SF-23.b~d])

PLU entry --- **TAX SHIFT 1 ~ 3** --- **TAX**

This may be used at the end of a transaction to exempt the whole transaction from a particular tax rate, e.g. the whole sale could be exempted from Tax 2.
After it is performed, all other operations are prohibited, except for a media closing.

Display Example
(popped up)



RECEIPT

```
PLU-NAME 0001                1.00
PLU-NAME 0002                2.00
TXSL2                        2.00
TAX 2---------------------- .00
CASH                    3.00
```

non-taxable item
taxable 2 item
tax 2 exempted manually

< **Automatic Tax Exemption** >

If the tax exemption limit amount is programmed by SP-108, the tax amount is automatically exempted according to the taxable subtotal amount.

Tax exemption limit amount is set to 1.00.

KEY ENTRY
PLU 1
CASH

RECEIPT

```
PLU-NAME 0001                1.00
TXSL1                        1.00
TAX 1                         .00
CASH                    1.00
```

automatic tax exemption

d) Tax Shift --- for add-on tax items calculated by add-on tax and VAT methods

Tax status is changed by **TAX SHIFT 1 ~ 3** keys.

Tax Shift for Bar Coded PLU : **TAX SHIFT 1 ~ 3** --- scanner

Tax Shift for Hard PLU : **TAX SHIFT 1 ~ 3** --- **HARD PLU**

Tax Shift for Coded PLU : PLU code entry --- **TAX SHIFT 1 ~ 3** --- **PLU**

< Tax Shift on items calculated by VAT method >

Depression of a tax shift key changes a tax status to a different VAT tax status.

	TAX SHIFT KEY PRESSED		
	TAX SHIFT 1 key	TAX SHIFT 2 key	TAX SHIFT 3 key
Non-taxable & VAT taxable items are changed to ...	taxable 1	taxable 2	taxable 3

< Tax Shift on items calculated by Add-on tax method >

Tax shift can also be used with the add-on tax items but in a way which is different from the VAT items. If the pressed TAX SHIFT key number and the item's tax number are the same, the item will become non-taxable. If the pressed TAX SHIFT key number and the item's tax number are different, the tax status will be both the original item's tax status and the shifted tax status as follows:

	TAX SHIFT KEY PRESSED		
ADD-ON TAX STATUS	TAX SHIFT 1 key	TAX SHIFT 2 key	TAX SHIFT 3 key
Non-taxable item	taxable 1	taxable 2	taxable 3
Taxable 1 item	**non-taxable**	taxable 1 & 2	taxable 1 & 3
Taxable 2 item	taxable 1 & 2	**non-taxable**	taxable 2 & 3
Taxable 3 item	taxable 1 & 3	taxable 2 & 3	**non-taxable**
Taxable 1 & 2 item	taxable 2	taxable 1	taxable 1, 2 & 3
Taxable 1 & 3 item	taxable 3	taxable 1, 2 & 3	taxable 1
Taxable 2 & 3 item	taxable 1, 2 & 3	taxable 3	taxable 2
Taxable 1, 2 & 3 item	taxable 2 & 3	taxable 1 & 3	taxable 1 & 2

The function of TAX SHIFT keys depends on which tax method is selected for each of the four taxes. Tax shift for the VAT system affects only VAT tax items and tax shift for the add-on system affects only add-on tax items. For example, Tax 1 and 2 are VAT method, tax 3 and 4 are add-on tax method, PLU 1's tax status is tax 1 & 3:

	TAX SHIFT KEY PRESSED		
PLU 1's TAX STATUS	TAX SHIFT 1 key (VAT method)	TAX SHIFT 2 key (VAT method)	TAX SHIFT 3 key (add-on tax method)
Tax 1 (VAT method)	no change	taxable 2	no change
Tax 3 (add-on tax method)	no change	no change	non-taxable
PLU1's tax status will be	**taxable 1 & 3**	**taxable 2 & 3**	**taxable 1**

20. R/A (Received on Account)

Records an amount of money received into the cash drawer when no customer transaction has taken place (i.e. in order to register the money prepared for change into the ECR memory).

50.00 x 1 piece and 5.00 x 10 pieces are entered

KEY ENTRY	DISPLAY (on the top)	RECEIPT
R/A	R/A	CASH 50.00 E CASH 50.00 E R/A 100.00
5000 CASH		
10 [X]		
PRESET TENDER 1		
R/A		

Media multiplication can only be done using a preset tender media key. **PRESET TENDER 1** key has been assigned to CASH/TTL 25 memory by SP-253.

21. P/O (Paid Out)

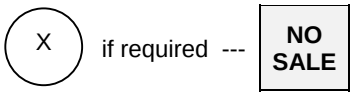
Records an amount of money withdrawn from the cash drawer when no customer transaction has taken place.

50.00 is withdrawn.

KEY ENTRY	DISPLAY (on the top)	RECEIPT
P/O	P/O	CASH 50.00 E P/O 50.00
5000 CASH		
P/O		

22. No Sale

For opening the drawer when no transaction has taken place. Simply press **NO SALE** key. Depending on programming [SF-32.g], turning the control key to the **X position** may be required.



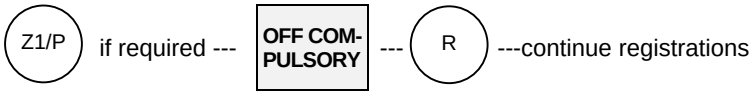
KEY ENTRY	RECEIPT
NO SALE	NSALE .00 [MF-2.b=0]
	NSALE . 0 [MF-2.b=1]
	No receipt is printed by NO SALE key depression by [SF-5.f=1]. (always printed on journal)

23. Off Compulsory

OFF COMPULSORY key is used for the temporary release of all compulsory conditions.

For example, under a track number entry compulsory condition, press **OFF COMPULSORY** key at the beginning of a transaction for release of the compulsory condition.

Depending on programming [SF-34.g], turning the control key to the **Z1/P position** may be required in order to use **OFF COMPULSORY** key.



24. Message

Up to 20 digits of number, message or one of 1 ~ 99 programmed supplementary message inputs are possible with **MESSAGE** key.

Number Input: enter number --- MESSAGE

Message Input: MESSAGE --- enter message --- **ENTER**

KEY ENTRY	DISPLAY (item line)	RECEIPT
63537021 MESSAGE	63537021#	MESSAGE 63537021# a MESSAGE MARK WHITE # b 2 X 2.50 BEER 5.00 CASH 5.00
MESSAGE MARK WHITE ENTER	MARK WHITE#	
2 [X] BEER CASH		

a: number is right justified
b: alphabet is left justified

Keys used for message entry:

Stroke KB	Flat KB	Functions
(CAPS)	↑	to enter upper-case letters
(SMALL)	↓	to enter lower-case letters
(DOUBLE)	(DBL)	makes a double-width character when this key is pressed after a character is entered
RPF [Code entry] ← [Alphabet entry]	←	to shift cursor left
JPF [Code entry] → [Alphabet entry]	→	to shift cursor right
(BS)		to enter a back space
(SPACE)		to enter a space
(INS SP)		inserts a space
(DEL)		deletes a character
(A/C)		to toggle between Alphabet entry mode and Code entry mode See programming manual - character programming page for Character Code Table. Alphabet entry mode and Code entry mode is toggled by X (A/C) key depression: [MESSAGE]-[X (A/C)]-(34)-[•] for A -(35)-[•] for B -(36)-[•] for C -[ENTER] After entering the character code, press "•" key.
CL, (CL)		to cancel character input before pressing **ENTER** key
(ENTER)		to finish character input
(Fix/Pgm)		Revises the fixed character key layout or programmable character key layout (allocated by SP-131).
(Left/Right)		Switches the entry direction (left ↔ right).

25. Validation (Dot Matrix Printer) / Slip Validation

Validation on the ECR's internal printer is available for Dot Matrix Printer only. Before issuing a validation, make sure that validation cover is already removed.

For Dot Matrix Printer: in order to remove the validation cover, open the printer cover and push the validation cover from inside of printer cover.

Validation on the slip printer is available for both Dot Matrix Printer and Thermal Printer models if the ECR is programmed for use with a slip printer TP-620. Insert a slip paper before **VALIDATION** key is pressed.

They can be issued for any item after it is registered, any media after payment is made, or for the total after the transaction is closed.

Item & Media Validations:
insert validation paper after an item or a media is registered --- **MISC. VALID.**

Total Validations:
insert validation paper after a transaction is closed --- **TOTAL VALID.**

KEY ENTRY
BEER 6 BOTTLES

insert a paper for item validation
MISC. (MEDIA/ITEM) VALID.

CASH
insert a paper for media validation
MISC. (MEDIA/ITEM) VALID.

insert a paper for total validation
TOTAL VALID.

RECEIPT

```
BEER 6 BOTTLES                6.60
CASH                        6.60
```

```
JUN15/2003#002-000001 BEER 6 BOTTLES     6.60
```

```
JUN15/2003#002-000001 CASH               6.60
```

```
JUN15/2003#002-000001 AMONT              6.60
```

key/symbol #37

```
JUN15/2003#002-000001 11:43 AMONT        6.60
```

time printed by [SF-9.a]

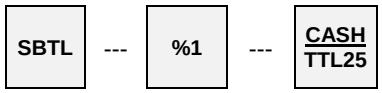
The following depend on programming by [SF-9]:
- Validation is compulsory or is not compulsory
- Validation can be printed only one time or an unlimited number of times
- Validation printed by upside-down or normal character (not available for the slip printer)
- Time printed or not printed
- Slip validation with slip upper logo [SF-86]

26. Arrangement

There are ten arrangement keys. Up to 50-key steps operations can be assigned to each one of the Arrangements. Execution of programmed steps can be performed by depression of the appropriate **ARRANGEMENT 1 ~ 10** key.

If an optional card reader is fitted and Arrangement Cards have been prepared by a card writer, the Arrangement Cards also perform the programmed ***17-key steps*** automatically by swiping.

Example 1: **ARRANGEMENT 1** key is programmed for an automatic % discount and closing operations as follows:



%1 key is programmed for 10% discount

KEY ENTRY
SALMON STEAK
ARRANGEMENT 1

RECEIPT

SALMON STEAK	15.00
SUBTOTAL	15.00
15.00 x 10 %⊖	
% 1	1.50⊖
CASH	13.50

Example 2: **ARRANGEMENT 2** key is programmed for assorted reports.
X-03 Full Transaction report (3, X, TTL25)
X-05 Hourly report (5, X, TTL25)
X-10 Cashier report (1, 0, X, TTL25)

Operation
Turn the control key to the **X position** and press **ARRANGEMENT 2** key. Then, above reports will automatically be printed.

27. Amount Track System

There are maximum (standard) of 2048 amount track memories designed to store due amounts up to 16 digits for customers management.

Each track is controlled by a manually entered 6-digit track number, and can be picked up either by track code entry or store-original card swipe.

< Opening a New Track and Closing Temporarily >

Enter a random 6-digit track number and press **TRACK/NEW BALANCE (NB)** key. A track number may be assigned at anytime while in a transaction. Enter registrations as normal and then, it can be closed temporarily through **TRACK/NB** key.

KEY ENTRY	RECEIPT	
123456	<123456> .00	track number, previous balance printed by [SF-16.b=0]
TRACK/NB	BRANDY 12.00	
BRANDY	BEER 2.50	
BEER	Today chag 14.50	current charge printed by [SF-15.d=1]
TRACK/NB	<123456> 14.50	new balance printed by [SF-16.b=0]
	TXSL2 14.08	taxable amount
	TAX 2 .42	tax amount
	QUANTITY 2	Tax amounts are calculated each time when the track is closed. VAT amount is printed after the new balance line and add-on tax amount is printed before the new balance line (above the current charge line).
	#001-000002 19:14R	
	CASHIER NAME 001	

BUFFER PRINT (for slip) --- see below
When **BUFFER PRINT** key is pressed immediately after closing, the last transaction's contents are issued on a slip if it is fitted or a receipt in the receipt-off condition.

< Picking up and Closing a Track Finally >

KEY ENTRY	DISPLAY (on the top)	RECEIPT
123456	<123456> -->	<123456> 14.50
TRACK/NB		CASH 14.50
CASH		QUANTITY 0
		#001-000003 19:25R
		CASHIER NAME 001

--- manual line finding operation on slip TP-620 ---
16 (number of lines fed)
BUFFER PRINT (for slip) --- see below

SLIP (TP-620)

```
1  ******************************************
2  *                                        *
3  *            SAMPLE HEADER MESSAGE       *
4  *                                        *
5  ******************************************
6
7  <123456>                          .00
8  BRANDY                           12.00
9  BEER                              2.50
10           Today chag              14.50
11 <123456>                       14.50
12 TXSL2                           13.92
13 TAX 2                             .58
14                       QUANTITY       2
15 JUN15/2003#001-000002 19:14R  CASHIER NAME 001
16
   <123456>                       14.50
   CASH                           14.50
                         QUANTITY       0
   JUN15/2003#001-000003 19:25R  CASHIER NAME 001
```

Logo is not printed.

< Amount track closing method >

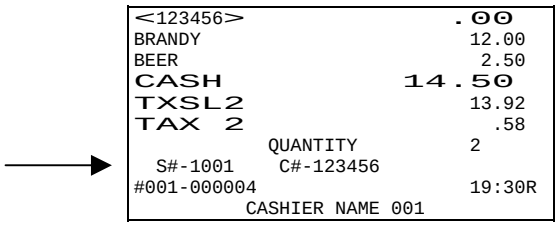
Depending on programming [SF-15.f], the new balance closing is compulsory when the items are registered on the currently opened amount track. If no item is registered, the amount track can be closed by a media key.

< Amount track new balance closing by cashier iButton > (option)

Depending on programming [SF-11.f=1], when the cashier iButton is removed during a track operation, the track will be automatically closed by new balance.

< Amount track opening/closing by card > (option)

If Amount Track Cards have been prepared by a card writer, an amount track is picked up by swiping. After the amount track is picked up, the track is automatically closed by new balance by swiping again.
Only when the track is finally closed by a media key, 4-digit store code (S#) and 6-digit amount track number (C#) are printed before the last line.



< Slip Manual Line Finding Function for TP-620 >

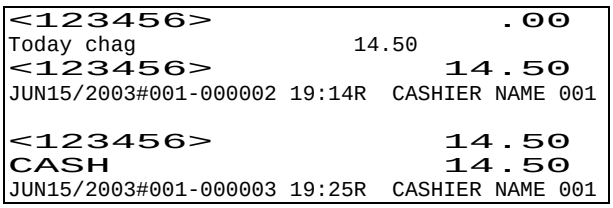
- Enter the **line number** from where printing should start and press **BUFFER PRINT** key.
- The entered line number should not be more than the preprogrammed maximum number of lines on the slip.
- Slips issued by the manual line finding operation do **not** have a slip logo.
- When **BUFFER PRINT** key is pressed directly, the transaction contents are printed on slip from home (top of form) position with a slip logo.

< Slip Print Started from Current Position >

Depending on programming [SF-83.b=1], this can be printed with logo from the current position.

< Charge Posting Issue on Slip >

Depending on programming [SF-83.a=1], only the amount line (previous balance, current charge, new balance, media amount) is issued on the slip.



28. Store / Restore

Besides amount track memory, one store memory is secured for saving all contents of the current transaction under any conditions without having to close it.

When a customer wishes to leave the cashier desk temporarily for additional commodities while the registration is in progress, the cashier can temporarily store such transaction and start dealing with other customer.

Simply press **STORE/RESTORE** key when you wish to store the transaction temporarily. When you wish to restore the transaction, press **STORE/RESTORE** key again after closing the other customer's transaction.

Current transaction is stored and new customer's items are registered.

KEY ENTRY — DISPLAY (on the top)

ROAST BEEF
RED WINE
STORE/RESTORE

RECEIPT (current transaction stored)

ROAST BEEF	15.00
RED WINE	7.00
STORE	22.00

--- New Customer ---
MILK
CHEESE
CASH
---------- END ----------

(new customer's transaction)

MILK	2.00
CHEESE	5.00
CASH	7.00

--- Restore Previous Customer ---
STORE/RESTORE — STORE
WHITE WINE
CASH
---------- END ----------

(restored transaction)

STORE	22.00
WHITE WINE	8.00
CASH	30.00

All items for the previous customer are printed on a post-receipt.
BUFFER PRINT

POST-RECEIPT

ROAST BEEF	15.00
RED WINE	7.00
WHITE WINE	8.00
CASH	30.00

These receipts are printed only under "Receipt printed real time" [SF-1.a=0].

29. Customer File

1024 customer files make records of telephone number or VAT number, name and address. These information are printed on receipt for delivery service market, etc. In order to use this function, an optional 1st RAM board is required.

Customer File Data Structure

PHONE # or VAT #	max. 15 characters
CUSTOMER NAME	max. 24 characters
ADDRESS 1	max. 24 characters
ADDRESS 2	max. 24 characters
ADDRESS 3	max. 24 characters
LAST ACCESS DATE	mmddyyyy or ddmmyyyy [SF-7.e]

Contents of This Section

a) New Customer File Making in R or SP Position

b) Customer File Editing in SP Position

c) Customer File Deleting in SP Position

d) Customer File Pick-Up Sequence
< Customer File Pick-Up Before Registration >
< Customer File Pick-Up During Registration >
< Picked Up Customer File Cancellation in R Position >
< Customer File Pick-Up Methods >

a) New Customer File Making in R or SP Position

< R or SP >--[CUSTOMER FILE]--{**ENTER PHONE/VAT#**: max. 15 characters}--[ENTER/TTL 25]--
--{**WARN MESSAGE# 61**: Customer file not found}--{**MAKE NEW FILE ?**}--[ENTER/TTL 25]--
--{**ENTER NAME**: max. 24 characters --[ENTER/TTL 25] or [ENTER/TTL 25] for skip name entry}--
--{**ENTER ADDRESS 1~3**: max. 24 characters --[ENTER/TTL 25] or [ENTER/TTL 25] for skip address entry}--{**ARE YOU SURE ?**}--[ENTER/TTL 25] to make or [CL] to cancel}--(New customer file made.)

When Customer File is made in R position, after the sequence completed, a confirmation receipt is printed. You can see the programmed customer's information on X-74 Customer File report.

b) Customer File Editing in SP Position

< SP >--[CUSTOMER FILE]--{**ENTER PHONE/VAT#**: max. 15 characters --[ENTER/TTL 25] or just press [ENTER/TTL 25] to find customer file by using [SCROLL DOWN]}--{Customer File displayed}--
--{[00] to print confirmation receipt (can be skipped)}--{[ENTER/TTL 25] to select Customer File}--
--{**ENTER NAME/ADDRESS 1~3**: max. 24 characters --[ENTER/TTL 25] or [ENTER/TTL 25] for skip}--
--{**ARE YOU SURE ?**}--{[ENTER/TTL 25] to finish or [CL] to cancel}

c) Customer File Deleting in SP Position

< SP >--[CUSTOMER FILE]--{**ENTER PHONE/VAT#**: max. 15 characters --[ENTER/TTL 25] or just press [ENTER/TTL 25] to find customer file by using [SCROLL DOWN]}--{Customer File displayed}--
--{[00] to print confirmation receipt (can be skipped)}--[VOID]--{**DELETE** is displayed}--
--{[ENTER/TTL 25] to execute deletion or [CL] to cancel}

In order to delete Customer File all together, take Z1-74 CUSTOMER FILE report.

d) Customer File Pick-Up Sequence

< Customer File Pick-Up Before Registration >

When customer file is picked up before registration, a customer confirmation is printed.
Customer file can be picked up by entering the programmed phone number or VAT number. In order to find the customer file from the display, just press **ENTER** or **TTL 25** without entering the phone/VAT number. Then find the customer by using **SCROLL UP/DOWN** keys.

```
KEY ENTRY                          CONFIRMATION RECEIPT
CUSTOMER FILE                          DAVID SMITH                  name (centered)
63537021                       5-25 3-chome Tenma                   address 1
ENTER or TTL 25 -- to pick up  Kita-ku Osaka                        address 2
ENTER or TTL 25 -- to define   JAPAN                                 address 3
                               6353-7021                            phone # or VAT #
                               #001-000001          11:47R
                                    CASHIER NAME 001
Continue registration.
```

< **Customer File Pick-Up During Registration** >

There are two formats of customer confirmation receipt with normal receipt by programming when customer file is picked up **during** registrations. Also current total amount is printed on customer confirmation by programming. When customer file is picked up before registrations, the customer confirmation receipt only is printed.

```
KEY ENTRY
(registration)

CUSTOMER FILE
63537021
ENTER or TTL 25 -- to pick up
ENTER or TTL 25 -- to define

CASH
```

Receipt with customer confirmation (type-2) [SF-8.c=1]

```
********************
*       Your       *
*     Receipt      *
*    Thank You     *
********************
        JUN03/2003
RED WINE                    7.00
WHITE WINE                  8.00
CASH                       15.00
---------------------------------
AMONT                      15.00   *
          DAVID SMITH
5-25 3-chome Tenma
Kita-ku Osaka
JAPAN
6353-7021
---------------------------------
#001-000001                11:47R
         CASHIER NAME 001
```

* total amount (key/symbol #37) printed by [SF-8.d]

Receipt and customer confirmation separately (type-1) [SF-8.c=0]

```
********************
*       Your       *
*     Receipt      *
*    Thank You     *
********************
        JUN03/2003
RED WINE                    7.00
WHITE WINE                  8.00
CASH                       15.00
#001-000001                11:47R
         CASHIER NAME 001
```

automatic cut for thermal printer

```
********************
*       Your       *
*     Receipt      *
*    Thank You     *
********************

        JUN03/2003
AMONT                      15.00   *
          DAVID SMITH                  name (centered)
5-25 3-chome Tenma                     address 1
Kita-ku Osaka                          address 2
JAPAN                                  address 3
6353-7021                              phone # or VAT #
#001-000001                11:47R
         CASHIER NAME 001
```

Customer confirmation is not printed on slip.

< Picked Up Customer File Cancellation in R Position >

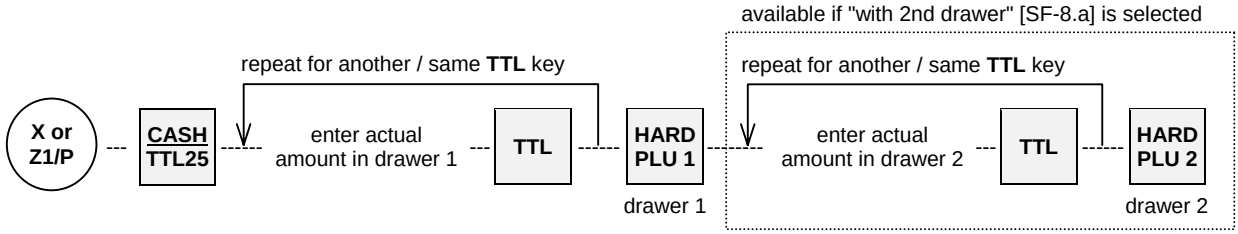
Customer file cancellation can be done when the customer file is picked up **during** registrations by pressing **CORRECTION** key.

< Customer File Pick-Up Methods >

For example, Phone # 81-6-6353-7021 or VAT # PH-237.69.98	You can pick up by entering the numbers below;	
A) You can enter the numbers as they were programmed.	81-6-6353-7021	PH-237.69.98
B) You can omit letters except alphanumeric.	81663537021	PH2376998
C) If the phone #/VAT # entered includes letters other than alphanumeric and there are no required file corresponding to, it automatically searches for the file corresponding to the phone #/VAT # by only alphanumeric letters. If there is simply no file corresponding to the phone #/VAT #, it will be registered as a NEW FILE. This prevents files having two identical numbers from existing.	81-66353-7021	PH-2376.9.98

30. Cash Declaration

At the end of the day, confirm the cash in drawer amount using 'cash declaration'. A cash declaration receipt shows any discrepancies between the amount of cash that is supposed to be in the drawer and what is actually there is issued.



Even if the Cash Declaration is done at the Z1/P position, the CID amount is **not** reset. It will be reset by Z-08 CID report.

KEY ENTRY
CASH/TTL 25
3000 CASH
H.PLU 1

RECEIPT

CASH	30.00	actual amount in drawer 1
TOTAL	30.00	
CID	30.00	amount in CID 1 memory
	.00	difference

Media multiplication is available for PRESET TENDER keys.

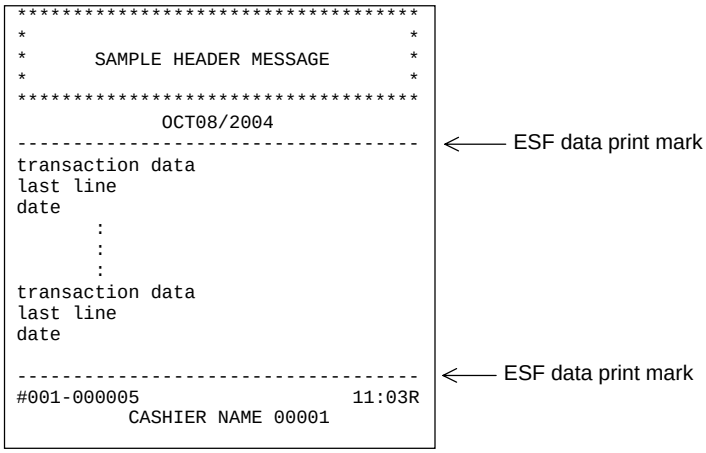
31. ESF Data Print (optional memory board required)

All registrations performed in the **R position** only are recorded in the ESF memory on the optional memory board if "ESF function available" [SF-4.h] has been programmed. The recorded data can be printed in the R position or the X position by **ESF PRINT** key on receipt by entering the print numbers below:

PRINT #	ESF data print contents
no number	last 5 transactions
1	last "n" transactions (n = 1 ~ 99)
2	transactions selected by "zone" (date, time, date & time)
3	transactions selected by "consecutive receipt numbers"
4	transactions of "minus operations" (transactions include minus amount, minus PLU quantity, void, refund are printed)
5	transactions of "void & refund" including scroll void, transaction void
6	transactions of "correction"
10	transactions selected by "cashier"
99	all ESF data **(X position only)**

Before printing ESF data, you can check how many records in the ESF memory have been used by taking **X-79** ESF status report. One record is printed approximately in one line. Please be sure that you are not taking **Z-79** report that will erase the ESF memory contents.
If programmed by [SF-13.c], Z-79 ESF status report is printed with all ESF data.

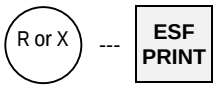
ESF Data Print
(not printed on journal)



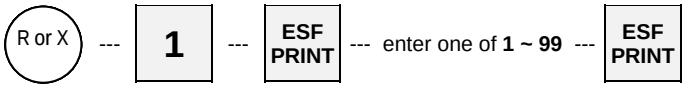
The consecutive # is always printed in normal character.
Consecutive #s of the transaction data in ESF data print are printed in double-width character by [SF-7.b=1].

ESF Data Print Sequences

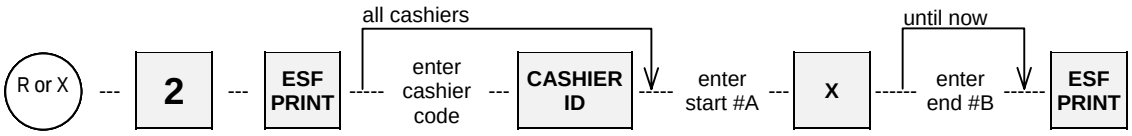
Last 5 transactions (no PRINT #)



PRINT #1: Last "n" transactions



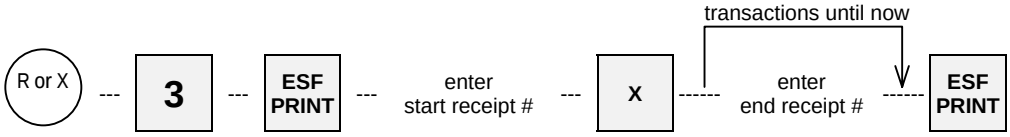
PRINT #2: Transactions selected by "zone" (date, time, date & time)



< start #A > enter “date” or “date & time” or “time only (for today’s transactions)”
< end #B > enter “date” or “date & time” or “time only (for transactions between start date (& time) and the today’s)

Format of Date & Time
Check date printed on a receipt for the date format.
date --- mmddyyyy or ddmmyyyy
date & time --- mmddyyyyhhmm or ddmmyyyyhhmm
time --- hhmm

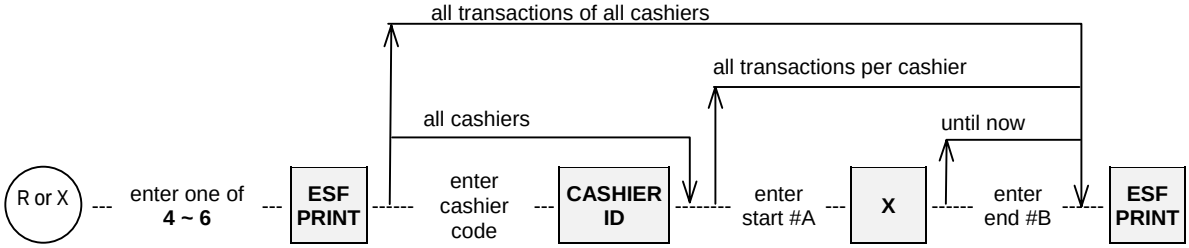
PRINT #3: Transactions selected by "consecutive receipt numbers"



PRINT #4: Transactions of "minus operations" including void & refund

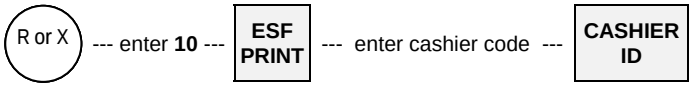
PRINT #5: Transactions of "void & refund"

PRINT #6: Transactions of "correction"

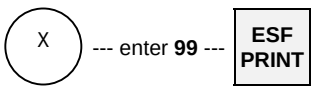


See above PRINT #2 for "start #A", "end #B", date and time formats.

PRINT #10: Transactions selected by "cashier"



PRINT #99: All transactions (X position only)



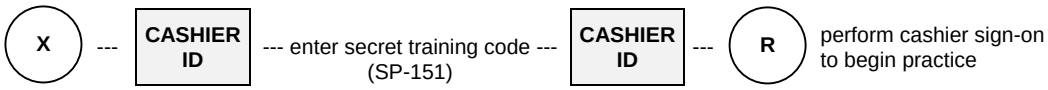
VII. TRAINING

Training mode is used for teaching ECR operations without affecting the memories of normal transactions, tracks and programming. In the training mode, reports can not be issued and ECRs can not initiate communication with other machines. However, except during a transaction, the memory of an ECR in the training mode can still be accessed by other ECRs in the IRC system.

Entering the training mode

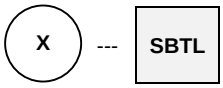
"TRAINING" message is displayed once and "T" is indicated at left below on the front display and the REG lamp on the rear display flashes continuously during the training.

Entering the training mode automatically signs off the currently signed-on cashier. Perform cashier sign-on to begin training.



Exiting the training mode

Exiting the training mode automatically signs off the currently signed-on cashier.



KEY ENTRY
(Entering training mode)
< X >
CASHIER ID
training code
CASHIER ID

"TRAINING" message is displayed once and "T" is indicated at left below.

< R >
1 CASHIER ID
STEAK
BEER
CASH

RECEIPT

```
************  TRAINING *************
STEAK                          15.00
BEER                            2.50
CASH                  17.50
            QUANTITY            2
************  TRAINING *************
#001-000500                    13:13R
          CASHIER NAME 001
```

training message

training message

SLIP

```
*****       TRAINING       ****
STEAK                              15.00
BEER                                2.50
CASH                         17.50
                       QUANTITY        2
*****       TRAINING       ****
JUN17/2003#001-000500 13:13R  CASHIER NAME 001
```

training message

training message

Notes for the training mode

- A programmable training message is printed on the journal, receipts, validations and slips.

```
VALIDATION (SLIP)
******   TRAINING  ****** 13:13 CASH          17.50
```

- The consecutive number is not incremented.
- The training mode has its own track memory separate from the regular track memory. The memory is erased when exiting the training mode.
- Training count, amount and training grand total (GX) are printed on the transaction reports (01 ~ 04). Training grand total, GX, is printed after grand totals G1 and G2. GX includes the amounts of all transactions done in the training mode, and is not resettable.

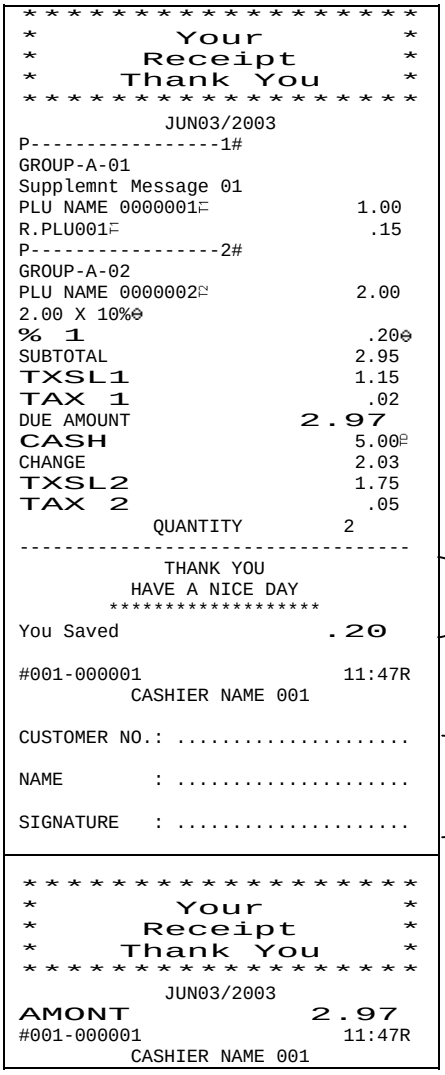
VIII. PRINT CONTENTS

1. Receipt

Key Entry

PLU 1
PLU 2
%1
SBTL
500
CASH

BUFFER PRINT
on slip
(see next page)


* * * * * * * * * * * * * * * * * * *
* Your *
* Receipt *
* Thank You *
* * * * * * * * * * * * * * * * * * *
JUN03/2003
P----------1#
GROUP-A-01
Supplemnt Message 01
PLU NAME 0000001 1.00
R.PLU001 .15
P----------2#
GROUP-A-02
PLU NAME 0000002 2.00
2.00 X 10%
% 1 .20
SUBTOTAL 2.95
TXSL1 1.15
TAX 1 .02
DUE AMOUNT 2.97
CASH 5.00
CHANGE 2.03
TXSL2 1.75
TAX 2 .05
QUANTITY 2
THANK YOU
HAVE A NICE DAY
You Saved .20
#001-000001 11:47R
CASHIER NAME 001
CUSTOMER NO.: .....
NAME : .....
SIGNATURE : .....
* * * * * * * * * * * * * * * * * * *
* Your *
* Receipt *
* Thank You *
* * * * * * * * * * * * * * * * * * *
JUN03/2003
AMONT 2.97
#001-000001 11:47R
CASHIER NAME 001

5-line receipt upper text logo [SF-10.d=0] or graphic logo [SF-10.d=1] under [SF-6.e=1]
Both graphic logo and text logo are printed on receipt [SF-48.a=1] under [SF-6.e=1]

date [SF-7.g] *1
PLU code [SF-68.h]
PLU link group-A name [SF-68.e]
PLU supplementary message (linked to PLU by SP-209)
PLU name, tax symbol [SF-22.d], PLU price
R. PLU name, tax symbol, PLU price (linked to PLU by SP-208) [PF-3.e]

subtotal [SF-81.g]
add-on taxable amount [SF-22.e]
add-on tax amount
due amount (printed if tendering amount entered) *2
media amount (one blank line is inserted by [SF-6.b])
change amount
VAT taxable amount [SF-22.e,h]
VAT tax amount [SF-22.h]
item quantity [SF-6.d]

total discount amount printed with 3-line message [SF-3.e] (key/symbol #89) *3

last line: machine #, 2-digit cashier symbol [SF-11.a], consecutive # (*2), time [SF-7.h], control mode, cashier name

5-line receipt lower logo [SF-10.e]

stub receipt [SF-2.a]
5-line receipt upper text logo [SF-10.d=0] or graphic logo [SF-10.d=1] under [SF-6.e=1]
Both graphic logo and text logo are printed on receipt [SF-48.a=1] under [SF-6.e=1]

key/symbol #37

*1 English or Numeric month, date order mmdd/yyyy or ddmm/yyyy [SF-7.e,f]
*2 Due amount [SF-7.d] and consecutive # [SF-7.b] printed in normal or double-width character.
*3 Thermal printer: total discount amount printed in vertical double-width character [SF-3.f]

2. Journal

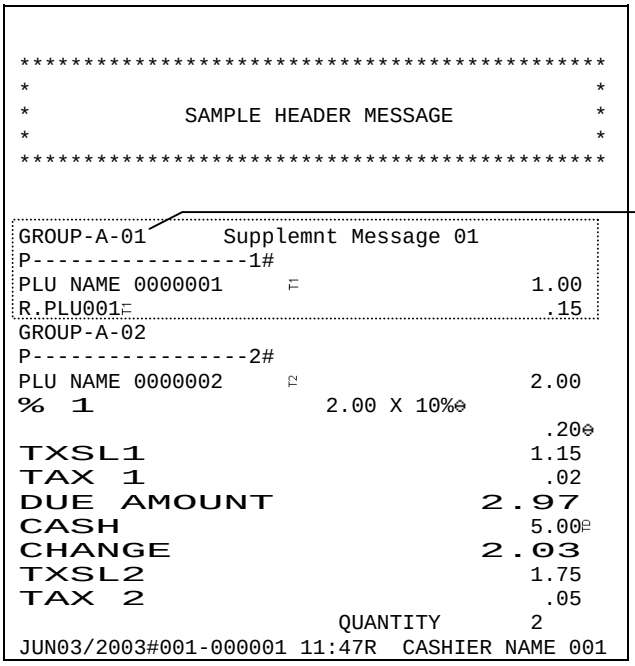
Either the normal journal contents or selective journal contents can be printed by programming [SF-6.c]. Also, if programmed by [SF-6], the messages for power-off/-on times, initial reset times and cleared figures (with * symbols) can be printed on the journal.

Normal Journal Contents	exactly the same way as the receipt contents are printed and logo is printed by [SF-8.f,g]
Selective Journal Contents	only the tax line and media closing lines are printed by [SF-6.c]

Only for 2-sheet thermal printer: Print journal data in half height size so that you can save a half amount of journal paper by [SF-3.d].

3. Slip

Besides the transaction items, the following items are printed on slip. Although the contents are the same as receipt, the format varies depending on the slip;



pre-feed lines for TP-620 [SF-85.e~f]

5-line slip upper logo [SF-83.d]

# of blank lines between upper logo and item line [SF-85.a~d]

PLU link group-A name [SF-68.e], PLU supplementary message (linked to PLU by SP-209)
PLU code [SF-68.h]
PLU name, tax symbol [SF-22.d], PLU price
R. PLU name, tax symbol, PLU price (linked to PLU by SP-208) [PF-3.e]

add-on taxable amount [SF-22.e]
add-on tax amount
due amount in double-width character
media amount (one blank line is inserted by [SF-6.b])
change amount in double-width character
VAT taxable amount [SF-22.e,h]
VAT tax amount [SF-22.h]
item quantity [SF-6.d]
last line: date [SF-7.g], machine #, 2-digit cashier symbol [SF-11.a], consecutive #, time [SF-83.c], control mode, cashier name

Notes:
- Subtotal is not printed on a slip.
- Due amount is printed when tendering amount is entered.
- Total discount amount is not printed on a slip.
- 5-line slip lower logo is printed by [SF-87.d]. However, it is not available with TP-620.

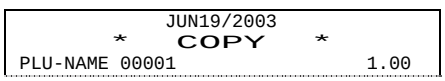
4. Post-Receipt

When the ECR is in the receipt-off condition and the ECR is **not** programmed for use with a slip printer [SF-83.h], the last transaction's data can be printed by pressing **BUFFER PRINT** key after closing the transaction. If the ECR is programmed for use with a slip printer, the post-receipt is printed on the slip.

Addition to Post-Receipt, Second Receipt is printed by **BUFFER PRINT** key if permitted by programming [SF-1.d] and when the ECR is **not** programmed for use with a slip printer.

PROGRAMMED AS	RECEIPT-ON	RECEIPT-OFF
Second Receipt permitted [SF-1.d=1]	1 receipt + 1 second receipt by **BP** key *	1st post-receipt by **BP** key 2nd post-receipt by **BP** key *
Second Receipt prohibited [SF-1.d=0]	1 receipt + no second receipt	1 post-receipt by **BP** key

* Second receipt message is printed by [SF-6.a] under the date. If [SF-1.h] is selected, Second Receipt is printed automatically following first post-receipt issue.



second receipt message (key/symbol #83)
This message is not printed on a stub receipt.

IX. REPORTS

REPORT SEQUENCE

Control Key Position

Set the control key to **X, Z1 or Z2 position** and use the report sequence below;

- 1st level for daily report: X (read only) position or Z1 (reset) position
- 2nd level for periodic report: X (read only) position or Z2 (reset) position

For Z report issue and report format, there are some programming restrictions. Refer to system function flags [SF-26~30] and the cashier security function flags.

Report Selection Method

The user friendly sequence is possible with usability of LCD display as follows:

1. Turn the control key to X position.
2. Enter the cashier ID and press **CASHIER ID** key.
3. Select REPORT and press **ENTER** key.
4. Select the report from the list by **ENTER** key.

   If you know the report number, enter the report number and press **X** key.
5. Press **ENTER** or **TTL 25** to issue the report.

Direct Number Entry Method

If you are familiar with the conventional report sequences which have been used by the conventional series, this method is much faster than "Report Selection Method" to enter into the report sequence.

1. Turn the control key to X position.
2. Enter the report number, for example "1" for X-01 AUTO FULL TRANSACTION - 1st level report.
3. Press **X** key.
4. Press **ENTER** or **TTL 25** to issue the report.

Report Sequence

Full Report <X or Z>--(report #)--[X]--[ENTER/TTL 25] or {select from the list}--[ENTER/TTL 25] or {select FULL REPORT and press [ENTER/TTL 25]}
Individual Report <X or Z>--(report #)--[X]--(*required #)--[•]--[TTL 25] or {select from the list}--{select INDIVIDUAL REPORT}--(*required #)--[• /ENTER]--[TTL 25]
Sequential Report <X or Z>--(report #)--[X]--(*start #)--[X]--(*end #)--[ENTER/TTL 25] or {select from the list}--{select SEQUENTIAL REPORT}--(*start #)--[X]--(*end #)--[ENTER/TTL 25]

*** required #, start/end #**

Cashier report	Enter the sequential cashier number (not 4-digit cashier code) for cashier reports.
Group report	Enter the group number.
PLU report	Scanner, HARD PLU and PACKED SALE keys can be used to enter PLU code.
Track report	Enter the track number.
Customer file report	Enter date (mmddyyyy or ddmmyyyy) indicated on full customer file report. It is printed in "order of customer file programmed" or "descending order of last access date if sorted by the sequence below. Customer File Sort Sequence: <X>--[CUSTOMER FILE] Display C.FILE SORT 100% 0007 Sort completed. total number of customer files After the customer file is sorted, the order will not be returned.
Function program dump report (#85)	Refer to the table shown on page 83.

TRANSACTION REPORT	REPORT #		REPORT SEQUENCE		
	1st level (X / Z1)	2nd level (X / Z2)	Full	Individual	Sequential
Auto Full Transaction	1	2	o		
Full Transaction (**X position** only)	3	4	o		
Hourly	5	6	o		
Grand Total 1	---	7	o		
Cash In Drawer	8	---	o		
Cashier (automatically logged out by Z-10)	10	11	o	o	
Main Group-A	20	21	o		
Group-A per Main Group-A	22	23	o	o*	
Group-A	25	26	o	o*	
Group-A PLU stock	---	29	o	o*	
Group-B	30	31	o	o*	
Group-B PLU stock	---	39	o	o*	
PLU	40	41	o	o*	o
PLU Stock	---	42	o	o*	o
Non-Active PLU (**X position** only)	43	44	o		
Active PLU Stock (**X position** only)	49	---	o		o
Group-A PLU	56	57	o	o*	
Group-B PLU	58	59	o	o*	
Track Total (**X position** only)	60	---	o		
Track	---	62	o	o	
R. PLU	70	71	o	o	o
Quantity Discount	72	73	o	o	
Customer File (files are erased by Z report)	74	---	o		o
ESF Status [SF-4.h=1] * [SF-13.d=1] for Z79 ESF data printed if [SF-13.c=1]. ESF data printed by ESF PRINT key.	79	---	o		

* Z report of individual PLU and Group permitted by [SF-26.c].

Set the control key to **X position** for all program dumps except for cashier dump.

PROGRAM DUMP	REPORT #	REPORT SEQUENCE		
		Full	Individual	Sequential
Full Program (consists of report #81 ~ 85)	80	o		
Main Group-A	81	o		
Group-A	82	o		
Group-B	83	o		
Key Layout	84	o		
Function (refer to next page for individual report) Ruler for cheque printed on slip if [SF-57.d=1]	85	o	o	
Key & Symbol Name	86	o		
Tax	87	o		
PLU	88	o		o
Cashier (**Z2 position**)	89	o		
Hard PLU Assignment	90	o		
R. PLU	91	o		o
Quantity Discount	92	o		
ESF Selection Table	93	o		
Communication Setting	99	o		

Required # for Individual Function Program Dump (X-85)

#	Report Contents	PGM-#
1	system function flag	SP-100
2	currency symbol, media name, foreign currency exchange rate, media function flag, preset tender key linked media, preset tender key amount	SP-262 SP-252 Z1/P-387 SP-110 SP-253 Z1/P-315
3	number of programmed PLUs, programmed quantity of packed sales keys	SP-201 SP-117
4	terminal address for PC communication	SP-172
5	slip printer ID number	[SF-88.a~c]
10	cashier name	SP-212
20	% rate	Z1/P-337
23	adjustment rate	Z1/P-347
24	cheque-cashing/currency exchange charge rate, Euro currency rate	Z1/P-377
27	tare weight	SP-127
29	total HALO	Z1/P-310
40	arrangement key sequence	SP-121
41	cheque printing data	SP-189
42	age limitation table	SP-298
43	bar code programmed by SP-191	SP-191

IRC REPORT SEQUENCE

Collecting Transaction Data from Slaves

There are two kinds of IRC reports issued by the master ECR:
One is a **consolidated report** for all ECR's sales data and
the other is an **individual report**, by designating the slave ECR by using the sequence below;

Set the control key to **X, Z1 or Z2 position**.
- 1st level for daily report : X (read only) position or Z1 (reset) position
- 2nd level for periodic report : X (read only) position or Z2 (reset) position

Consolidated (all ECRs) Report

<X or Z>--(report #)--[X]--[ENTER/TTL 25] or {select ALL ECRs from the list}--[ENTER/TTL 25]

Individual (per ECR) Report

<X or Z>--(report #)--[X]--(slave ECR machine #)--[ENTER/TTL 25]

or {select from the list}--{select slave ECR from the list}--[ENTER/TTL 25]

Single Cashier Report X-8610/8611, Single Cashier Track Report X-8664

Consolidated (all ECRs) Report

< X >--{(report #)--[X] or select from the list}--{(sequential cashier #)--[•] or select from the list}--[ENTER/TTL 25]

Individual (per ECR) Report

< X >--{(report #)--[X] or select from the list}--{(sequential cashier #)--[•] or select from the list}--{(slave ECR machine #) or select from the list}--[ENTER/TTL 25]

The master ECR can collect the slave ECR's sales data only when the slave ECR is in an idle condition (no other communication, no transaction). When the slave ECR is transmitting sales data to the master, the display shows "**--- IRC COMM ---**" and ECR locks until IRC communication stops.

The following IRC reports are printed on the master and slave ECRs respectively.
'IRC Z report printed or not printed' [SF-29.b] can be programmed also.

		Master prints	Slave prints
Consolidated X-report		a consolidated report	a confirmation report *
Individual X-report		a designated slave's report	a confirmation report *
Consolidated Z-report	printed [b=0]	own report and a consolidated report with IRC status	own report
	not printed [b=1]	own confirmation report (*) and a consolidated report with IRC status	a confirmation report *
Individual Z-report	printed [b=0]	a designated slave's report with IRC status	own report
	not printed [b=1]	a designated slave's report with IRC status	a confirmation report *

* Confirmation report printed on both receipt and journal or journal only by [SF-30.b].

IRC REPORT	REPORT #		REPORT SEQUENCE		
	1st level (X / Z1)	2nd level (X / Z2)	All ECRs consolidated	Per ECR individual	
Auto Full Transaction	8801	8802	o	o	
Hourly	8805	8806	o	o	
Grand Total 1	---	8807	o	o	
Cash In Drawer	8808	---	o	o	
Cashier	8810	8811	o	o	
Main Group-A	8820	8821	o	o	
Group-A	8825	8826	o	o	
Group-A PLU Stock	---	8829	o	o	Note 1
Group-B	8830	8831	o	o	
Group-B PLU Stock	---	8839	o	o	Note 1
PLU	8840	8841	o	o	
PLU Stock	---	8842	o	o	Note 1
Active PLU Stock	8849	---	o	o	
Track	---	8862	*	o	
R. PLU	8870	8871	o	o	
Quantity Discount	8872	8873	o	o	
ESF Status (ESF data is not printed.)	8879	---	*	o	Note 2

***** The consolidated reports are not available for these reports. However, if PC communication module Tensai2000 is used as an IRC master, you can take individual report from all ECRs at one time. In order to have the consolidated report data, add the individual report data together on PC.

Note 1:

	Consolidated PLU stock Z report	Individual PLU stock Z report
Master ECR	- Slave's stock is added to master's stock memory. - Master's stock cleared or not cleared by [SF-27.a].	- Slave's stock not added to master's. - Master's stock not cleared.
Slave ECR	Slave's stock cleared to zero.	Slave's stock cleared to zero.

Note 2: To issue ESF status report 8879, "ESF function available" [SF-4.h=1] should be set on both of master and slave ECRs.
When this individual report is taken, the slave's ESF data which is selected by the ESF data selection (SP-181) is transmitted to the master as PC (Tensai2000) by [SF-4.e=1] and the slave prints the ESF status report. The ECR master does **not** receive the slave's ESF data.

X-8879: Master prints ESF status but the slave IRC status only.
Z-8879: Master and slave always print ESF status.

In order to see the ESF data, take ESF report by using Tensai2000. Tensai2000 saves ESF data with category code in text format. Refer to the interfaces & peripherals manual for the category code and data format.

FLASH IRC REPORTS

Printing Read Only Reports on Master

Flash **read-only** reports as shown below can be issued at any time on the master ECR by using the following sequences in **X** position only. The flash report will not disturb the slave ECR even when the slave ECR is in transaction, report issuing or programming sequence.

Flash report is printed on the master ECR with IRC status. No message will be displayed and X-report will not be counted up for a flash report on a slave ECR. If the flash report can not be taken from a slave ECR, the IRC status "slave ECR's machine number and NG" are printed on the master ECR.

FRASH REPORT CONTENTS	FLASH IRC REPORT #		REQUIRED #
Transaction	8601 (1st level)	8602 (2nd level)	See Table below.
Hourly	8605 (1st level)	8606 (2nd level)	one of time zone 0 ~ 23
Grand Total 1	8607		no number required
Cash In Drawer	8608		no number required
Cashier	8610 (1st level)	8611 (2nd level)	one of cashier sequential #1 ~ 99
Main Group-A	8620 (1st level)	8621 (2nd level)	one of main group-A #1 ~ 10
Group-A	8625 (1st level)	8626 (2nd level)	one of group-A #1 ~ 99
Group-B	8630 (1st level)	8631 (2nd level)	one of group-B #1 ~ 99
PLU	8640 (1st level)	8641 (2nd level)	one of PLU code
PLU Stock	8642		one of PLU code

Required #s and Contents for X-8601/8602	
02	amount/count of media in drawer rounding error
03	taxable sales tax amounts
04	amount/count of %
05	amount/count of discount
07	amount/count of adjustment
08	amount/count of P/O
09	amount/count of R/A
10	amount/count of void
11	amount/count of refund
13	amount/count of new balance
14	amount/count of cheque-cashing, currency exchange
15	amount/count of training
17	count of no sale
20	count of transaction
22	amount/count of correction
27	amount/count of previous balance
29	net charge
38	amount/count of store coupon
39	amount/count of vendor coupon
40	amount/count of REG (-)

TRANSACTION REPORT SAMPLES

AUTO FULL TRANSACTION (01, 02)

Consists of two separate reports, Group-A (25, 26) and Full Transaction (03, 04). Refer to each report for details.

```
X-01

          Group-A report
-----------------------------------
      Full transaction report
```

Depending on programming [SF-26.d~f], issuing the Z-01 report will reset to zero any of the following data on each report where the data appears:
- Cash in Drawer
- Consecutive Receipt
- X Report Count

FULL TRANSACTION (03, 04)

```
X-03

DRAWER TTL
   1    F.C. MEDIA
   0.9345  *                  6.54
                              £700
   1    EURO
  6.5595  *                   6.23
                              €.95
   0    CHEQUE                5.00
   6    CASH                 10.64
TOTAL                       28.41
                    <         .00 >
A
TXSL1                       52.30
TOTAL                       52.30
TAX 1                        1.04
TOTAL                        1.04
V
TXSL2                       26.11
TXSL3                        7.59
TOTAL                       33.70
TAX 2                         .78
TAX 3                         .31
TOTAL                        1.09
   2    STR.COUPON            2.00
   1    % 1                    .09-
   1    ITEM <->               .50
   1    SBTL <->               .20
   1    VND.COUPON            1.00
   1    AJST1                  .05
   1    P/O                   5.00
   1    R/A                   5.00
   1    VOID                  2.00
   2    REFND                 1.15
   1    T.VOID                3.50
   1    REG -                 5.00
   1    CORRECTED             3.00
   1    CHQ.CHARGE             .50
   4    T-AMT                16.57
NSALE          1
TRCNT         13
   4    N.B                  48.26
   2    PB                    4.57
Net-charge                  43.69
CID1                         4.64
CID2                          .00
     G1:00000000000000053.18
     G2:00000000000000053.18
     GX:00000000000000016.57
              X-0007
#001-000154                 19:20X
        CASHIER NAME 001
```

Media Amount in Drawer
media count, media name
foreign currency exchange rate, calculated amount in local currency by actual amount
actual amount in foreign currency

Euro currency rate, temporarily calculated amount in local currency by actual amount
actual amount in Euro currency (Euro currency symbol is printed by [SF-65.b=0].)
Cheque-cashing is done.

rounding error (difference when calculating back and forth for a currency exchange rate)
Symbol A for tax calculated by add-on tax method (tax data printed by [SF-26.a=1])
taxable subtotal amount
total taxable subtotal
tax amount
total tax amount
Symbol V for tax calculated by VAT method

Add-on tax system: tax 1 ~ 3, VAT system: tax 1 ~ 7

store coupon: count, amount
%
item discount
subtotal discount
vendor coupon
adjustment
P/O
R/A
void
refund
transaction void
Reg (-) -- refund of all items
correction
cheque-cashing, currency exchange
training (key/symbol #71)
no sale count
transaction count
new balance count, amount
previous balance
net-charge -- total amount of non-closed amount tracks
cash amount in drawer 1
cash amount in drawer 2 [SF-8.a=1]
grand total 1
grand total 2 (not resettable)
training grand total (not resettable)
X-report count
M/C #, 2-digit cashier symbol [SF-11.a], consecutive #, time, control mode
cashier name

Media Amount in Drawer
Actual amount in drawer. This amount includes no-sale-transactions (P/O, R/A, cheque-cashing, etc.) and results of rounding. When no sale transactions are done, the amounts are added to the memory, but the media count is not counted.

Foreign Currency Media / Euro Currency Media Amount in Drawer
When a foreign or Euro currency media was used, the media in drawer memory stores the foreign or Euro currency value. The printed local currency amount is temporarily calculated by memorized value. The difference between the actual sales amount and calculated local currency amount arises because of the difference caused by calculating back and forth with a certain currency exchange rate. This difference is printed under the total amount, in the brackets < >.

For example, when sales amount of 1.00 (point is disregarded on calculation) is closed by a **F.C. MEDIA** key having a preset exchange rate of 10.5425*,

1. Foreign currency is calculated by dividing the due amount 1.00 in local currency by exchange rate 10.5425;
   Local Currency to Foreign Currency :
   LC / exchange rate = 100 / 10.5425 = 9.4854... = rounded to **9** (printed on the receipt)

   At the same time, FC amount 9 is converted to LC amount 95 (9 x 10.5425) and the difference **.05** between the actual sales 1.00 and calculated LC amount .95 is stored in the rounding error (difference) memory and will be printed in the brackets < > in the sales report.

2. Printed local currency amount **.95** in the report is calculated from the memorized foreign currency **9**;
   FC x exchange rate = 9 x 10.5425 = 94.8825 = rounded to **95**

* This exchange rate is calculated by "LC / FC". The calculation method "FC / LC" is also made available by [MF-1.h].

Tax
Printed by [SF-26.a]. When using the VAT system, the taxable subtotal can be programmed to include or not to include tax by [SF-22.c]. When using the add-on tax system, the taxable subtotal does not include tax. If programmed by [SF-36~45.e~g], adjustment, % and discount calculations will affect each taxable subtotal.

New Balance
The amount closed by **TRACK/NEW BALANCE** key during Amount Track operations. This amount does not reset to zero after the Amount Track is finally closed by a media key.

Previous Balance
The count and amount are the accumulation of previous charges that were picked up when an Amount Track was opened.

Net Charge
Net charge shows the total amount of all non-closed Amount Tracks. It is calculated from the charge and the previous charges.

Cash in Drawer Amount
Total of the media in drawer amounts that are programmed to be added to CID.

Grand Total
Grand Total 1 can be reset by issuing Z-07 report.
Grand Total 2 is the accumulated grand total (can not be reset).
Grand Total X is the grand total of training transactions (can not be reset).

If programmed, grand total is calculated from each PLU amount [PF-1.d], R. PLU amount [RPF-1.d], vendor coupon [SF-29.f], % amount, adjustment amount, discount amount [SF-29.h] and tax amount [SF-29.g].

Report Count
There are three kinds of report counts: X (read only), Z1 (1st level and reset) and Z2 (2nd level and reset). Each Z count will be increased only when a Z-01/Z-02 report is issued or when any Z report is issued by [SF-26.b].

HOURLY (05, 06)

```
X-05

14:00.....14:59    11         50.55
15:00.....15:59     6         15.20
16:00.....16:59     8         22.25
TOTAL                        88.00
```

time period, sales quantity, amount

Hourly data is recorded in one of two ways by [SF-27.d].

1. **Number of registrations and net amount.**
   Each time a transaction is closed by a media key, the count is increased by 1. The gross amount includes VAT tax, add-on tax, adjustment amount, % on item/subtotal and item/subtotal (-) calculations.

2. **Number of transactions and gross amount.**
   Each item registered -- even if it includes multiplication -- increases the count by 1. The net amount includes VAT tax, % on item and item (-) calculations but does not include add-on tax amount, adjustment amount, % on subtotal and subtotal (-) calculations.

GRAND TOTAL 1 (07)

Max. 16 digits of grand total can be printed. However, "0" is filled on the left side so as to cover up to 19 digits on the report. Grand Total 1 can be reset by issuing the Z-07.

```
X-07

     G1:00000000000000183.37
```

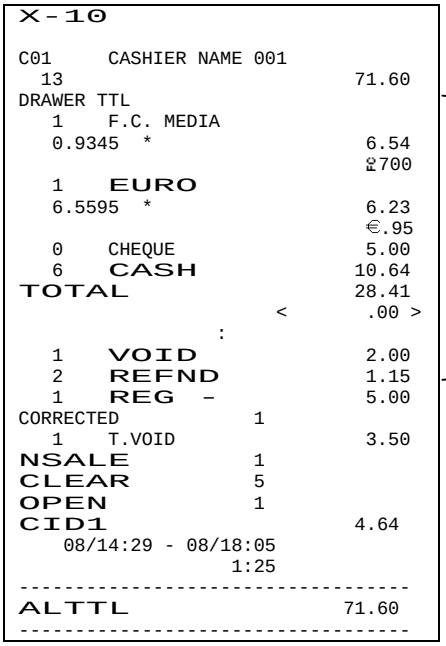
CASH IN DRAWER (08)

Total of the media in drawer amounts is printed if media are programmed to be added to CID memory. It can be reset by issuing the Z-08 or Z-01 report.

```
X-08

CID1                  140.03
CID2                     .00
```

CASHIER (10, 11)

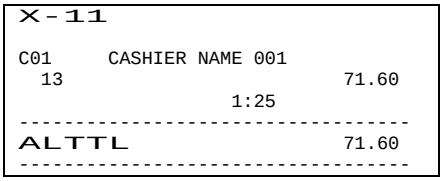


sequential cashier number, cashier name
transaction count, amount

These contents are the same as X-03 full transaction report.

Reg (-) -- refund of all items
correction count or count/amount of PLU and R.PLU only [SF-67.g]
transaction void
no sale count
clear count
open count (OFF COMPULSORY and HALO RELEASE keys used)
cash amount in drawer 1
log-in date / time - log-out date / time
labor hours

All Cashiers Total, total transaction amount



sequential cashier number, cashier name
transaction count, amount
labor hours

All Cashiers Total, total transaction amount

Note: In the full report, some data with value of "0" will be skipped.
In the individual report, all data (whether "0" valued or not) is printed.

Labor Hours

Labor hours are calculated by the hours between log-out and log-in and accumulated until each Z-10/11 report is taken.

log-in time	log-out time	labor hours
14:29 (printed)	15:30	0:59
17:39	**18:05 (printed)**	0:26
	total	**1:25 (printed)**

When X-10/11 reports are taken without doing the previous cashier log-out operation, the labor hours are not calculated (0:00 is printed). Special care must be taken when Z-10/11 reports are issued.

When Z-10 report is taken,

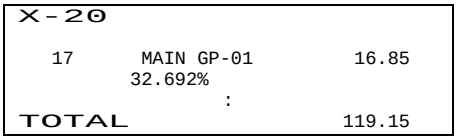
- The cashier is automatically logged out. The symbol * is printed on the right side of the log-in/out times data.
- The calculated 1st level of labor hours is printed and reset.

When Z-11 report is taken,

- The cashier is not automatically logged out.
- The accumulated 2nd level of labor hours is printed, excluding the latest labor hours, and it will then be reset.

MAIN GROUP-A (20, 21)

This report shows the ten main group-A's which are used to monitor sales of all drinks, all snacks, all daily goods, etc. Each main group-A consists of linked group-A's.

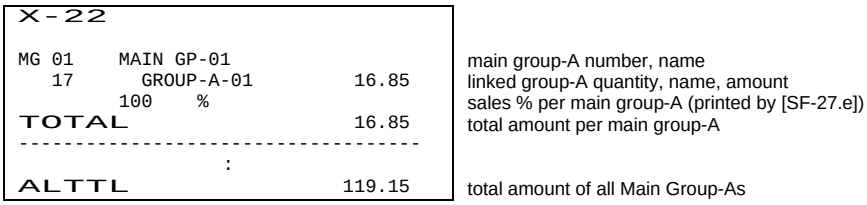


Main Group-A Quantity
Calculated either by the actual quantity or by the number of registrations ([SF-68.d]).

Sales %
Each group's % of total sales is calculated either by quantity of items sold or by sales amount ([SF-27.h]). A positive sales % is calculated from the total positive sales and a negative sales % is calculated from the total negative sales.

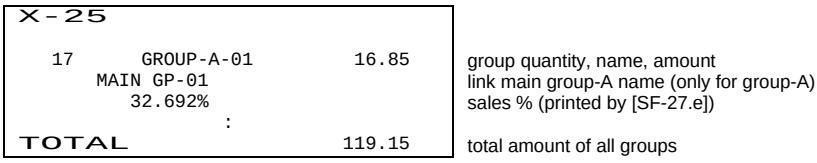
GROUP-A PER MAIN GROUP-A (22, 23)

This report shows the linked group-A's per main group-A.



Linked Group-A Quantity
Calculated either by the actual quantity or by the number of registrations ([SF-68.d]).

GROUP-A (25, 26) / GROUP-B (30, 31)



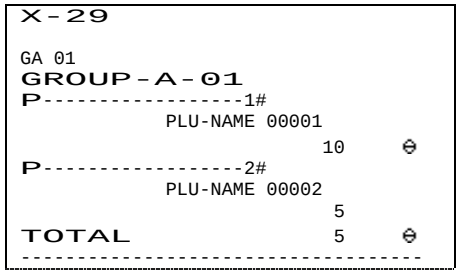
Group-A or B Quantity
Calculated either by the actual quantity or by the number of registrations ([SF-68.d]).

Group-A or B Amount
Group-A/B amount is calculated as:

total PLU amount linked to each group-A/B
Item (-), % on item ([SF-29.e])
+) VAT tax amount

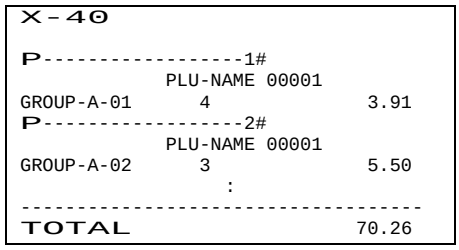
GROUP-A STOCK (29) / GROUP-B STOCK (39)

This report shows the total stock of PLUs which are linked to group-A or B.
Minus symbol shows the short stock.



group number
group name
PLU code (linked to group-A or -B)
PLU name
PLU stock

PLU (40, 41)



PLU code
PLU name
link group-A name, PLU quantity, amount

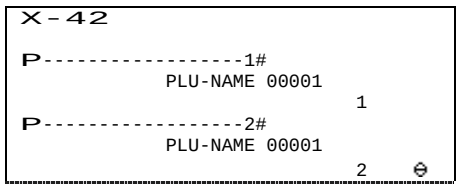
all PLUs' total amount

PLU Quantity
Calculated either by the actual quantity or by the number of registrations ([SF-68.d]).
Weight with kg or lb is printed for scalable item ([SF-5.e]). (Actual quantity must be selected.)

PLU Amount
PLU amounts include or do not include item (-) and % on item ([SF-29.e]).
Subtotal (-), % on subtotal and adjustment amounts are not included in the PLU amounts.

PLU STOCK (42)

This report shows the stocks of PLU that remain.

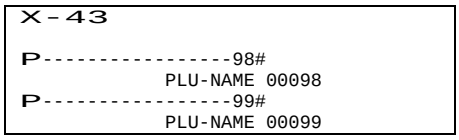


PLU code
PLU name
Stock (kg or lb is printed for weight of scalable item [SF-5.e])

Minus symbol shows the short stock.

NON-ACTIVE PLU (43, 44)

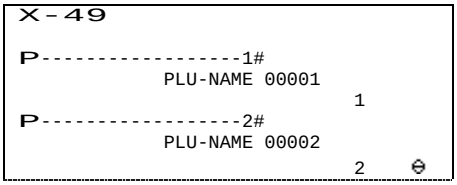
This report shows PLU items (PLU code and name) that have not been sold.



PLU code
PLU name

ACTIVE PLU STOCK (49)

This report shows the stocks of PLU that have been sold.

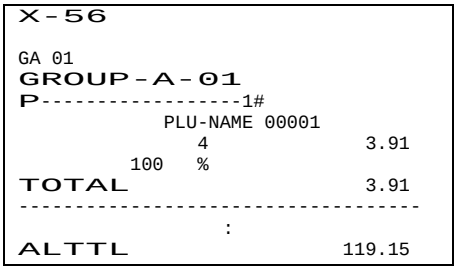


PLU code
PLU name
Stock (kg or lb is printed for weight of scalable item [SF-5.e])

Minus symbol shows the short stock.

GROUP-A PLU (56, 57) / GROUP-B PLU (58, 59)

This report shows the consolidated PLU sales data of items which are linked to a group-A or a group-B.
The report contents are almost the same as PLU report.

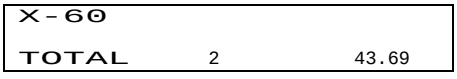


group number
group name
PLU code (linked to group-A or -B)
PLU name
PLU quantity, amount
sales % per group (printed by [SF-27.f])
total amount per group

all group's total amount

AMOUNT TRACK TOTAL (60)

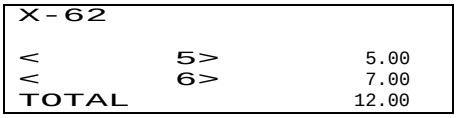
Shows the total balance amount of all tracks that have been closed by **TRACK/NEW BALANCE** key. When Amount Tracks are closed by a media key, the data is updated by subtracting the track amounts from the total.



number of tracks, total balance of temporarily closed tracks

AMOUNT TRACK (62)

Shows each track amount that has been closed by **TRACK/NEW BALANCE** key.

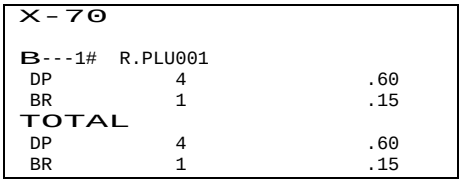


< track number >, balance due

total balance due of all tracks

R. PLU (70, 71)

Shows the quantity and amount of each R. PLU (Recyclable PLU), such as bottle deposit/return linked to a main PLU.

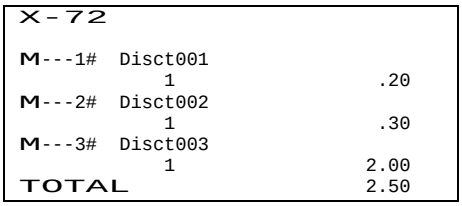


R. PLU sequential number, name
R. PLU deposit quantity, amount
R. PLU returned quantity, amount

total quantity, amount of R. PLU deposit
total quantity, amount of R. PLU returned

QUANTITY DISCOUNT (72, 73)

Shows the quantity and discount amount of PLUs linked to a quantity discount table.

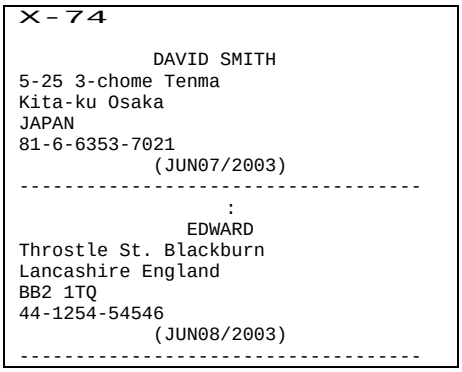


quantity discount table number, name
quantity, discount amount

total discount amount

CUSTOMER FILE (74)

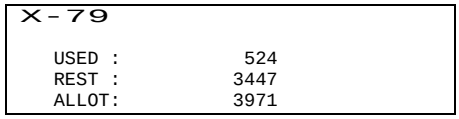
Customer file data is printed in "order of customer file programmed" or in "descending order of last access date (if sorted by <X>-[CUSTOMER FILE])". Z-74 report prints and erases all the customer file data.



name (max. 24 characters) --- centered
address 1 (max. 24 characters)
address 2 (max. 24 characters)
address 3 (max. 24 characters)
phone number/VAT number (max. 15 characters)
last access date

ESF STATUS (79)

Each journal data is memorized in the ECR's ESF (Electronic Store & Forward) memory by [SF-4.h]. This report shows the ESF status.



number of used records
number of remaining records
total number of records

In order to see the ESF data, there are following ways:
- printed on Z-79 ESF status if [SF-13.c=1]
- press ESF PRINT key
- take ESF report by using Tensai2000 under the selection of [SF-13.g=1]

X. WARNING MESSAGES

The messages which are programmed by SP-182 will be displayed under certain specific conditions. In the auto preset condition, the default messages "Warn Message# xx" are displayed.

WM-#1 **PRINTER ERROR**
Turn the power off and check the printer. Then turn the power on. **Do not** perform the initial reset operation.

WM-#2 **INPUT FIGURE OVER LIMITATION**
Press **CL** key. (PLU/Total HALO can be released temporarily by using **HALO RELEASE** key.)

WM-#3 **CASHIER IS NOT LOGGED OR SIGNED ON**

WM-#4 **MEDIA SLIP VALIDATION IS COMPULSORY**
Print media slip validation by **MISC. VALID** key.
(can be released temporarily by using **OFF COMPULSORY** key)

WM-#5 **TOTAL SLIP VALIDATION IS COMPULSORY**
Print total slip validation by **TTL. VALID** key.
(can be released temporarily by using **OFF COMPULSORY** key)

WM-#6 NOT USED

WM-#7 NOT USED

WM-#8 NOT USED

WM-#9 NOT USED

WM-#10 NOT USED

WM-#11 **SBTL KEY DEPRESSION IS COMPULSORY BEFORE TENDERED AMOUNT INPUT**
(can be released temporarily by using **OFF COMPULSORY** key)

WM-#12 **TAX TABLE IS NOT PRESET**
Enter tax amount manually. Preset tax table.

WM-#13 **TENDERED AMOUNT INPUT IS COMPULSORY**
(can be released temporarily by using **OFF COMPULSORY** key)

WM-#14 **DRAWER IS OPEN**
This message is displayed only when the optional 'drawer open sensor' is being used.

WM-#15 **CASH DECLARATION IS COMPULSORY**

WM-#16 **REGISTRATION BUFFER IS ALMOST FULL**
Prepare to close the transaction.

WM-#17 NOT USED

WM-#18 NOT USED

WM-#19 **ECR TO ECR RAM DATA TRANSFER ERROR**
Check the cable connection between ECR & ECR. Refer to Interfaces & Peripherals manual for details.

WM-#20 **CASHIER iBUTTON IS REMOVED**
Insert previously removed cashier iButton.

WM-#21 **SLIP PRINTER IS BUSY**
Press **CL** key and wait for the printer to be ready. Press 'PRINT' on the printer to proceed with the slip.

WM-#22 NOT USED

WM-#23 **RECEIPT PAPER END**
Replace with new paper roll.

WM-#24 **JOURNAL PAPER END**
Replace with new paper roll.

WM-#25 **THERMAL PRINTER IS OVERHEATED**
Please wait until the head cools down.

WM-#26 **THERMAL PRINTER HEAD IS RELEASED**
Close the paper roll cover by pressing down the surbased area.

WM-#27 **TOTAL 25 SHORT TENDERED AMOUNT INPUT PROHIBITED** [MF-1.e]

WM-#28 **CHECK-DIGIT ERROR**
Press **CL** key and enter the correct PLU code.

WM-#29 **PRICE / WEIGHT CHECK-DIGIT ERROR**
Press **CL** key and enter the price or weight manually. Re-program the PLU code.

WM-#30 PLU NOT FOUND
Press **CL** key and enter correct PLU code or register the PLU as Not Found PLU.
WM-#31 PLU PRESET MEMORY IS FULL
WM-#32 SLIP PAPER HAS NOT BEEN INSERTED
WM-#33 REGISTRATION BUFFER IS FULL
Close the transaction temporarily by **NEW BALANCE** key or close it by a media key.
WM-#34 ENTIRE AMOUNT TRACK MEMORY IS FULL
Close the amount track by a media key.
WM-#35 NEW BALANCE CLOSING IS COMPULSORY [SF-15.f]
(can be released temporarily by using **OFF COMPULSORY** key)
WM-#36 REAL-TIME COMMUNICATION: EXTERNAL AMOUNT TRACK # DOES NOT EXIST
Enter correct external amount track number.
WM-#37 AMOUNT TRACK # INPUT IS COMPULSORY [SF-15.h]
(can be released temporarily by using **OFF COMPULSORY** key)
WM-#38 REAL-TIME COMMUNICATION: WAITING DEBIT / CREDIT CARD VERIFICATION
WM-#39 REAL-TIME COMMUNICATION: ENTER EXPIRY DATE OF DEBIT / CREDIT CARD
WM-#40 CUSTOMER'S BIRTHDAY INPUT IS COMPULSORY
(can be released temporarily by using **OFF COMPULSORY** key)
WM-#41 NEGATIVE PRICE PLU ENTRY PROHIBITED WHEN PLU IS LINKED TO A QUANTITY DISCOUNT TABLE
Press **CL** key.
WM-#42 SLIP PRINT IS COMPULSORY
(can be released temporarily by using **OFF COMPULSORY** key)
WM-#43 THIS AGE LIMITED PLU CAN NOT BE SOLD
WM-#44 STORE MEMORY IS OCCUPIED
Restore the saved transaction and close it by a media key.
(displayed when the store memory is used and a transaction report is taken, training operation is done or the control key is turned to LOCK position)
WM-#45 WEIGHT HAS NOT BEEN CHANGED (ITEM NOT REMOVED)
(displayed only when the scale has been programmed this way)
WM-#46 DECIMAL FRACTION ENTRY PROHIBITED [PF-2.b]
WM-#47 THIS PLU ENTRY IS PROHIBITED (ITEM HAS BEEN PROGRAMMED AS LOCK ITEM) [PF-3.c]
WM-#48 "SWIPE CARD" MESSAGE BY CARD MEDIA CLOSING
WM-#49 THIS TRACK IS OCCUPIED BY STORE OPERATION
Restore the amount track by pressing **STORE/RESTORE** key.
WM-#50 PER CUSTOMER LIMIT OVER FOR QUANTITY DISCOUNT OPERATION
Press **CL** key.
WM-#51 THIS PLU IS NOT PROGRAMMED FOR NOT FOUND PLU
Set [PF-3.d=1]. Or Master PLU for Not Found PLU is prohibited to register by [SF-67.e=0].
WM-#52 NOT FOUND PLU UNIT HAS NOT BEEN ENTERED
WM-#53 TARE WEIGHT ENTRY IS OVER FLOW
WM-#54 TARE WEIGHT ENTRY IS COMPULSORY
(can be released temporarily by using **OFF COMPULSORY** key)
WM-#55 MANUAL TARE WEIGHT ENTRY IS PROHIBITED [PF-1.b]
WM-#56 NOT USED
WM-#57 NOT USED
WM-#58 GAS ITEM'S VOID & REFUND OPERATIONS ARE PROHIBITED [SF-108.c]
WM-#59 THIS PLU IS NOT SCALABLE PLU [PF-2.a]
WM-#60 ESF MEMORY IS FULL [SF-3.h]
Issue Z-79 ESF status report with data print by [SF-13.c], take Z-8879 by PC (from Tensai2000), or take Z-79 report by PC batch communication with ESF data collection in order to clear the ESF memory. See also MISCELLANEOUS MESSAGES "ESF NEAR FULL".
WM-#61 CUSTOMER FILE IS NOT FOUND
WM-#62 CUSTOMER FILE MEMORY IS FULL
WM-#63 NOT USED
WM-#64 NOT USED
WM-#65 SCANNER COMMUNICATION ERROR
WM-#66 NOT USED
WM-#67 ARE YOU SURE TO EXECUTE TRANSACTION VOID?
WM-#68 NOT USED
WM-#69 JOURNAL DATA TRANSFER BUFFER IS FULL
WM-#70 IRC LINE (RS485) IS BUSY

WM-#71 SLIP PRINTER ERROR FOR TP-822/832/CBM-1000
Confirm the setting of slip printer. Refer to Interfaces & Peripherals manual for details.

WM-#72 NOT USED

WM-#73 PREPARATIONS FOR EURO CONVERSION ARE NOT COMPLETED
Refer to the separate document "How to Switch to Euro Currency System 2002".

WM-#74 ENTERED NUMBERS FOR EURO CONVERSION SEQUENCE IS NOT CORRECT
Refer to the separate document "How to Switch to Euro Currency System 2002".

WM-#75 SLIP PRINTER ERROR FOR TP-620
Confirm the setting of slip printer. Refer to Interfaces & Peripherals manual for details.

WM-#76 SCALE COMMUNICATION ERROR / WEIGHT ERROR
Confirm the setting of scale. Refer to Interfaces & Peripherals manual for details.
Reduce the item on the scale or put the item if the weight display is zero. This is displayed if the item weight on the scale exceeds the limit weight of the scale or the item weight is zero when **SCALE** key is pressed.

MISCELLANEOUS MESSAGES

SETUP REQUIRED	It indicates that ECR data might be collapsed because of a low battery condition by battery discharge while ECR is in stock for a long period. Perform Physical RAM Test and Auto Preset, then leave ECR ON for minimum of 3 hours for battery charge.
INITIAL RESET RQ	SYSTEM ERROR : Since Initial Reset is required, perform the initial reset.
IR DONE	INITIAL RESET OPERATION ACCEPTED
--- Pc comm ---	IN PC BATCH COMMUNICATION
PC comm error	PC BATCH COMMUNICATION ERROR
--- PC-IN ---	RECEIVING RAM DATA FROM PERIPHERAL (ECR to ECR RAM data transfer)
--- PC-OUT ---	TRANSFERRING RAM DATA TO PERIPHERAL (ECR to ECR RAM data transfer)
-- TEXT ERROR --	PC TEXT DATA ERROR IN REAL-TIME COMMUNICATION
--- ID ERROR ---	ECR ID AND PC ID OVERLAPPED Reprogram the ECR ID # using SP-171 or reprogram the PC ID # by setting the system function flag SF-82.
ESF NEAR FULL displayed on the bottom line	OPTIONAL ESF MEMORY IS NEAR FULL 15287 records out of maximum 15887 is used. The ESF memory near full condition can be cleared by issuing Z-79 ESF status report with data print by [SF-13.c], by taking Z-8879 by PC (from Tensai2000), or by taking Z-79 report by PC batch communication. When ESF memory becomes full, the data first stored, i.e. data at the starting of ESF memory area, will be deleted from ESF memory.

XI. IRC MESSAGES

Following messages are displayed on the master ECR or the slave ECRs in IRC communication:

Displayed on Slave ECR	
--- IRC COMM ---	Displayed on the top when a slave ECR is in IRC communication.
Displayed on Master ECR	
-- IRC BUSY --	Displayed on the top when a slave ECR is in IRC communication, or when the communication line is being used by other ECR for slip printer transmission, etc.
ECR#-xx	Displayed on the bottom when master ECR is in IRC communication of report collection or program download.
ECR#-xx OFF	Displayed on the bottom while the master is taking IRC Z report when a slave ECR is in error (can not communicate), or when the power is OFF, or the cable being disconnected.
ECR#-xx BUSY	Displayed on the bottom when a slave ECR is processing a transaction, or when a transaction is closed but some compulsory conditions still remain.

xx: slave ECR's IRC ID (last two digits of machine number)

POWER OFF / BUSY / COMMUNICATION ERROR AT SLAVE ECR

For **X-report data**, the master ECR prints consolidated X report skipping power offed or busy slave ECR. See IRC status printed at the end of the report for non-consolidated slave ECRs.

When collecting **Z-report data** and one or more of the slave ECRs are not ready, the master ECR displays slave ECR status as shown above. Re-attempt to collect the slave's report or skip it.

TTL 25 key for re-attempt:
If you wish to include an ECR's data on Z-report, close the transaction in process on that particular slave, or turn its power on and then press **TTL 25** key on the master ECR.

CL key for skip:
If you do not wish an ECR's data on the report, press **CL** key and the master will skip that slave ECR. Master resumes data collection for the next ECR in the system.

POWER OFF AT MASTER ECR

If the power fails while collecting **X-report data**, the master prints consolidated X report when the power returns. See IRC status printed at the end of the report for non-consolidated slave ECRs.

Basic Program Guide

05 type

PLU CODE 1
PLU PRICE 2
PLU STOCK 2
PLU NAME 2
CASHIER NAME 2
DATE 2
TIME 2

PLU CODE

You can use the user friendly program sequence to add new PLU. Refer to "User Friendly PLU Programming" in the operation manual.

< SP >--{(201)--[X/ENTER] or select from the list}--{**PLU entry**}--[X, CR or CL: see step 3]--[CL]

PLU entry: (PLU code: max. 18 digits)--[• /ENTER] / Scanner / Hard PLU key
Before entering PLU, PACKED SALE key can be pressed if required.

1. In the SP position, enter program number and press X or ENTER key or select this program from the list.
2. Enter PLU code (max. 18 digits) and press [•] or ENTER or scan the barcode on the item or press Hard PLU key.
   For PLUs sold by using one of PACKED SALE keys:
   It should be programmed as well as the original PLU using this sequence. When PACKED SALE 1 key is pressed on this sequence, the PLU code enterd in the next step with '1' at 18th digit is programmed. For example, when the PLU code '1234' is entered with PACKED SALE 1 key, the PLU code '100000000000001234' is programmed. PACKED SALE 2 and 3 keys will attach '2' and '3' to the entered PLU code.
3. Press X key to create a PLU.

   Press CR key to delete this PLU. Before the deletion, clear the PLU's sales data.
   PLU having a sales data can **not** be deleted. Issue PLU Z reports (Z-40~42) in order to clear the sales data.

   Press CL key to cancel the PLU code entry.
4. Press CL key to finish the sequence.

You can see the settings on X-88 PLU program dump report. Number of PLUs is printed on X-85 Function program dump report - Required #3.

PLU PRICE

<Z1/P>--{(305)--[X/ENTER] or select from the list}--{**PLU entry**}--{select Standard or Pending price}--[ENTER]--(*PLU price: max. 8 digits)--[X/ENTER]--[X for next PLU, 00/CL for another PLU]--[CL]--[CL]

PLU entry: (PLU code: max. 18 digits)--[• /ENTER] / Scanner / Hard PLU key
Before entering PLU, PACKED SALE key can be pressed if required.

* To skip the entering price, press X without entering price.
When ENTER key is pressed without entering price, then zero price is programmed.

To see the setting on the screen, press 00 or CL and enter the PLU code. Or you will see the settings on X-88 PLU program dump report.

PLU STOCK

< Z2 >--{(406)--[X/ENTER] or select from the list}--{**PLU entry**}--[X for the next, 00 for another]--(Quantity: 0 ~ 79999.999)--[X/ENTER **to add**, CR **to subtract**]--[CL]

PLU entry: (PLU code: max. 18 digits)--[• /ENTER] / Scanner / Hard PLU key
Before entering PLU, PACKED SALE key can be pressed if required.

* Entered quantity is not replaced with current stock but it is added or subtracted to/from the current stock.

Entered stock is printed on receipt by [SF-81.a=1]. Also you can see the stock on X-42 PLU stock report.

PLU NAME

< SP >--{(202)--[X/ENTER] or select from the list}--{**PLU entry**}--(max. 22 characters)--[00 to print]--[ENTER]--[CL]

PLU entry: (PLU code: max. 18 digits)--[• /ENTER] / Scanner / Hard PLU key
Before entering PLU, PACKED SALE key can be pressed if required.

CASHIER NAME

< SP >--{(212)--[X/ENTER] or select from the list}--{(Cashier #1 ~ 99)--[• /ENTER] or select from the list}--(max. 16 characters)--[00 to print]--[ENTER]--[CL]

DATE

< X >---(1)---[•]---(YYYYMMDD)---[X / ENTER]

TIME

< X >---(2)---[•]---(HHMMSS)---[X / ENTER]

Hardware Specification

PRINTER	**2-sheet dot matrix** PX-6600	**2-sheet thermal** PX-6700	**1-sheet thermal** PX-6750
Model name	Epson M-U420 with an auto cutter	Receipt: M-T207A Journal: M-T203 Epson thermal printer with an auto cutter and clamshell mechanism	Citizen LT-1320 with an auto cutter (no journal)
Speed	3 lines/sec	21.3 lines/sec	21.5 lines/sec
Receipt / Journal	24 / 24 columns	36 / 36 columns	46 columns
Validation	55 columns	no validation (slip validation available)	
Graphic logo size (width x height)	no graphic logo	max. 54 x 36 mm by [SF-10.f,g]	max. 72 x 36 mm by [SF-10.f,g]
Fine quality paper roll	44.5 (+/- 0.5) mm ø83 mm	58 (+0 / -0.5) mm ø83 mm	80 mm, ø80 mm TF50KS-E2C (Nihon Seishi)
Validation paper (width) (height) (thickness)	 135 to 210 mm min. 70 mm 0.07 to 0.14 mm	Slip validation paper complies with slip printer.	
Ink ribbon	Epson ERC-32	no ink ribbon	

KEYBOARD	
Flat key	152 keys
Stroke key	90 keys incl. optional 12 keys

DISPLAY	Front LCD (column x line) (view area) (display type) (character size) (LCD type) (backlight)	 40 columns x 8 lines 38 (H) x 116 (W) mm 64 (H) x 240 (W) dot matrix 0.46 (H) x 0.41 (W) mm/dot STN, Blue mode, transmissive white CCFL
		Reversing display function by [SF-119.h]
	Rear display	1-line 12 digits numeric, standard

POWER SUPPLY	AC 117V / 230V ± 10%, 50/60Hz	
POWER CONSUMPTION	Dot printer: 400mA (117V) / 200mA (230V) Thermal 1-sheet printer: 0.6A (117V) / 0.3A (230V) Thermal 2-sheet printer: 1A (117V) / 0.5A (230V)	
TEMPERATURE	Operation	0° ~ 40°C (32° ~ 104°F)
	Storage	-10° ~ 50°C (14° ~ 122°F)
DIMENSIONS & WEIGHT **W x D x H mm**	With drawer	410 x 415 x 297
	Without drawer	370 x 410 x 196 (option)
	Drawer	405 x 423 x 98 + 14 mm for a foot 8C4B (removable/adjustable coin tray) 5C5B (removable coin tray)
	Weight	Approx. 13.5 Kg with drawer, 6.5 Kg without drawer
RAM CAPACITY	Standard	One 4M bit RAM chip on MPU board
	Option	Up to three RAM boards are available.
MEMORY PROTECTION	3 months	